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Flora Americæ Septentrionalis;

OR, A

SYSTEMATIC ARRANGEMENT

AND

DESCRIPTION

OF

The Plants

OF

NORTH AMERICA.

CONTAINING,

BESIDES WHAT HAVE BEEN DESCRIBED BY PRECEDING AUTHORS

MANY NEW AND RARE SPECIES,

COLLECTED DURING TWELVE YEARS' TRAVELS AND RESIDENCE
IN THAT COUNTRY.

BY FREDERICK PURSH.

IN TWO VOLUMES.

WITH TWENTY-FOUR ENGRAVINGS.

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VOL. I.
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SECOND EDITION.

London:

PRINTED FOR JAMES BLACK AND SON,
TAVISTOCK-STREET, COVENT-GARDEN.

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TO
AYLMER BOURKE LAMBERT, Esq.
F.R.S. F.A.S.
VICE-PRESIDENT OF THE LINNEAN SOCIETY.

SIR,

I AM conscious of offering but a small tribute of gratitude, when I beg to be permitted to inscribe the following pages with your name. Should they happily meet with approbation, the Public will have, in a great measure, to thank you for their existence ; as, without the aid and assistance you so liberally afforded me, my own feeble exertions would have been inadequate to the performance of so important an undertaking.

Should the perusal of this work in any degree add to the pleasure you feel in

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*the cultivation of your favourite science,
and in encouraging the efforts of others
for its advancement, the utmost of the
wishes are attained of,*

Sir,

Your obedient and much devoted

humble Servant,

FREDERICK PURSH.

P R E F A C E.

AMONG the numerous useful and interesting objects of natural history discovered on the vast extent of the New Continent, none claim our attention in a higher degree than the vegetable productions of North America. Her forests produce an endless variety of useful and stately timber trees; her woods and hedges the most ornamental flowering shrubs, so much admired in our pleasure grounds; and her fields and meadows a number of exceedingly handsome and singular flowers (many of them possessing valuable medicinal virtues), different from those of other countries. All these are more or less capable of being adapted to an European climate, and the greater part of easy cultivation and quick growth; which circumstances have given them, with much propriety, the first rank in ornamental gardening.

A country so highly abundant in all the objects of my favourite pursuits, excited in me, at an early period of life, a strong desire to visit it, and to observe in their natural soil and climate the plants which I then knew; and to make such discoveries as circumstances might throw in my way. This plan I carried into execution in the year 1799; when I left Dresden, the place where I had received my education, and embarked for Balti-

more in Maryland, with a determination not to return to Europe until I should have examined that country to the utmost extent of my means and abilities. In 1811, after an absence of nearly twelve years, I returned to Europe, with an ample stock of materials towards a *FLORA OF NORTH AMERICA*, an attempt at which I now venture to lay before the public, with the flattering hope, that a generous allowance will be made for its unavoidable imperfections, when the extent of the undertaking is considered ; and that it will be accepted as it really is intended, as only the groundwork of some future more perfect work upon the subject.

As it may be interesting to some readers to have a sketch of the particulars of my stay in America, and to be informed of the means by which I became possessed of so general a collection of its plants, I shall give a few outlines thereof, previous to the necessary remarks respecting the execution of the work itself.

My first object, after my arrival in America, was to form an acquaintance with all those interested in the study of Botany. Among these I had the pleasure to account one of the earliest, and ever after the most valuable, the Rev. Dr. Mühlenberg of Lancaster, in Pennsylvania, a gentleman whose industry and zeal for the science can only be surpassed by the accuracy and acuteness of his observations ; I only regret, that his extensive and interesting materials towards a *Flora of the United States*, in which he has been engaged for a number of years, should not before this have been communicated to the public.

I next visited the old established gardens of Mr. Marshall, author of a small “ *Treatise on the Forest-trees*

of North America." This gentleman, though then far advanced in age and deprived of his eye-sight, conducted me personally through his collection of interesting trees and shrubs, pointing out many which were then new to me, which strongly proved his attachment and application to the science in former years, when his vigour of mind and eye-sight were in full power. This establishment, since the death of Mr. Marshall, (which happened a few years ago,) has been, in some respects, kept up by the family, but is now very much on the decline, only a few old established trees being left as a memento of what formerly deserved the name of a respectable botanic garden.

Near Philadelphia I found the botanic garden of Messrs. John and William Bartram. This is likewise an old establishment, founded under the patronage of the late Dr. Fothergill, by the father of the now living Bartrams. This place, delightfully situated on the banks of the Delaware, is kept up by the present proprietors, and probably will increase under the care of the son of John Bartram, a young gentleman of classical education, and highly attached to the study of botany. In Mr. William Bartram, the well known author of "Travels through North and South Carolina," I found a very intelligent, agreeable, and communicative gentleman; and from him I received considerable information about the plants of that country, particularly respecting the habitats of a number of rare and interesting trees. It is with the liveliest emotions of pleasure I call to mind the happy hours I spent in this worthy man's company, during the period I lived in his neighbourhood.

Not far from the latter place are also the extensive gardens of William Hamilton, Esq., called the Woodlands, which I found not only rich in plants from all parts of the world, but particularly so in rare and new American species. Philadelphia being a central situation, and extremely well calculated for the cultivation of plants from all the other parts of North America, I found this collection particularly valuable for furnishing me with a general knowledge of the plants of that country, preparatory to more extensive travels into the interior, for the discovery of new and unknown subjects.* Mr. John Lyon, (of whom I shall have an opportunity to speak hereafter,) who had the management of these gardens, was then about to give them up: having the offer of being appointed his successor, I embraced it, and accordingly in 1802 I entered upon the situation. During my stay in this place, which was until 1805, I received and collected plants from all parts of North America; and when Michaux's "*Flora Boreali-Americana*" appeared, which was during that time, I was not only in possession of most of his plants, but had then a considerable number not described by him.

Within this period I had also formed a connection with Dr. Benjamin S. Barton, Professor of Botany in the University of Pennsylvania, &c. whose industrious researches in all the different branches of natural history are so well known to the literary world. He likewise, for some time previous, had been collecting materials for an American Flora. As I was now very anxious to explore the more remote parts of the country, particularly the interesting ranges of the Allegany Mountains, I was enabled, by the kind assistance of this gentleman, to

take a more extensive range for my botanical excursions, which during my stay at the Woodlands had been confined within a comparatively small compass, the necessary attention to the duties of that establishment not permitting me to devote more time to them.

Accordingly, in the beginning of 1805, I set out for the mountains and western territories of the Southern States, beginning at Maryland and extending to the Carolinas, (in which tract the interesting high mountains of Virginia and Carolina took my particular attention,) and returning late in the autumn through the lower countries along the sea-coast to Philadelphia. The following season, 1806, I went in like manner over the Northern States, beginning with the mountains of Pennsylvania and extending to those of New Hampshire, (in which tract I traversed the extensive and highly interesting country of the Lesser and Great Lakes,) and returning as before by the sea-coast.

Both these tours I principally made on foot, the most appropriate way for attentive observation, particularly in mountainous countries; travelling over an extent of more than three thousand miles each season, with no other companions than my dog and gun, frequently taking up my lodging in the midst of wild mountains and impenetrable forests, far remote from the habitations of men. The collections and observations made in the course of these journeys, all of which I communicated to Dr. Barton, were considerable, in respect to the discovery of many new and interesting subjects of natural history in general. But the knowledge which I thereby acquired of the geography, soil, and situation of the plants of that country, (points of the greatest interest

to the practical botanist) was of the greatest importance to me.

Soon after my return from the last-mentioned journey, I had the pleasure to form an acquaintance with Meriwether Lewis, Esq., then Governor of Upper Louisiana, who had lately returned from an expedition across the Continent of America to the Pacific Ocean, by the way of the Missouri and the great Columbia rivers, executed under the direction of the Government of the United States. A small but highly interesting collection of dried plants was put into my hands by this gentleman, in order to describe and figure those I thought new, for the purpose of inserting them in the account of his Travels, which he was then engaged in preparing for the press. This valuable work, by the unfortunate and untimely end of its author, has been interrupted in its publication; and although General Daniel Clark, the companion of Mr. Lewis, (to whom I transmitted all the drawings prepared for the work,) undertook the editorship after his death, it has not, to my knowledge, yet appeared before the public, notwithstanding the great forwardness the journals and materials were in when I had the opportunity of perusing them.

The collection of plants just spoken of was made during the rapid return of the expedition from the Pacific Ocean towards the United States. A much more extensive one, made on their slow ascent towards the Rocky mountains and the chains of the Northern Andes, had unfortunately been lost, by being deposited among other things at the foot of those mountains. The loss of this first collection is the more to be regretted,

when I consider that the small collection communicated to me, consisting of about one hundred and fifty specimens, contained not above a dozen plants well known to me to be natives of North America, the rest being either entirely new or but little known, and among them at least six distinct and new genera. This may give an idea of the discerning eye of their collector, who had but little practical knowledge of the Flora of North America, as also of the richness of those extensive regions in new and interesting plants, and other natural productions.

The descriptions of those plants, as far as the specimens were perfect, I have inserted in the present work in their respective places, distinguishing them by the words "*v. s. in Herb. Lewis.*" Several of them I have had an opportunity of examining in their living state, some being cultivated from seeds procured by Mr. Lewis, and others since my arrival in England from seeds and plants introduced by Mr. Nuttall.

Here I cannot refrain from drawing the attention of future botanists travelling those regions, to two highly interesting plants, of which I have only seen imperfect specimens. The first is what Mr. Lewis in his journals calls "the Osage Apple," or "Arrowwood of the Missouri." This is a tree, or rather shrub, with leaves resembling those of a pear-tree, but broader in proportion; they are alternate, and have a recurved thorn near their base; the flowers are of separate sexes, and appear in axillary, peduncled, globular catkins, which produce a depressed globular fruit, in size and colour resembling an orange, in interior structure approaching near to the genus *Morinda*. This shrub, on account of its fruit

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and handsome foliage, must be highly ornamental : the wood, being excessively hard, is preferred by the natives to any other for making their arrows ; and as it does not spontaneously grow in their neighbourhood, they travel annually to a considerable distance South-west, to procure it. About the village of the Osage Indians a few trees have been planted, from which one has been introduced into one of the gardens at St. Louis on the Mississippi. Perfect seeds from the last-mentioned tree were given by Mr. Lewis to Mr. M'Mahon, nursery and seedsman, at Philadelphia, who raised several fine plants from them, and in whose possession they were when I left America. The other plant alluded to is called by Mr. Lewis " A bulbous Rush, which serves the Indians for bread." Of this I have only seen the root, which is of a yellowish-brown colour, about the thickness of a finger, and jointed ; on each joint, which are about three inches asunder, several tubers of about an inch and a half long are produced, of an oblong ovate shape, tapering into a point towards the end ; these tubers are filled with an exquisite white and fine farina, resembling starch ; these roots are used in the same manner as those of *Psoralea esculenta*, vid. vol. ii. p. 475. I take this to be a larger species of tuberous *Cyperus*.

While I was thus engaged in describing and figuring those new acquisitions to the American Flora, another opportunity offered to augment my resources. Mr. Aloysius Enslen, who had been sent to America by Prince Lichtenstein of Austria, as a collector of new and interesting subjects of natural history, returned to Philadelphia from his extensive travels through the Western Territories and Southern States. This gentle-

man, with whom I had previously been on terms of intimate friendship, was now in possession of an extremely valuable collection of living and dried plants, to which I had unrestrained access. To his liberality I am indebted for many new and scarce specimens, which filled up a desideratum in my collection, particularly in the plants of Lower Louisiana and Georgia. Those species exclusively received from his collection I have distinguished by "*v. s. in Herb. Enslen.*"

At the same time I had frequent opportunities of seeing the herbarium and collection of living plants of Mr. John Lyon, a gentleman through whose industry and skill more new and rare American plants have lately been introduced into Europe than through any other channel whatever. Those plants particularly adopted from his collection I have marked with "*v. s. in Herb. Lyon.*"

By these and several other connections, which it is unnecessary to mention here, added to my own occasional excursions through the different parts of the United States, I was put in possession of an extensive herbarium, containing plants from all the different parts of North America; which when summed up would nearly double the number of those described in Michaux's excellent *Flora*. As that work was then extremely scarce in America, I determined to publish a Compendium of it, executed on the plan of Hoffmann's *Flora Germanica*, which work I had no doubt would be acceptable to the botanist, and particularly so to the cultivator. I communicated my design to Messrs. Bradford and Inskeep, booksellers at Philadelphia, who gave me every encouragement towards the prosecution thereof.

While I was engaged in arranging my materials for this publication, I was called upon to take the management of the Botanic Garden at New York, which had been originally established by the arduous zeal and exertions of Dr. David Hosack, Professor of Botany, &c. as his private property, but has lately been bought by the Government of the State of New York for the public service. As this employment opened a further prospect to me of increasing my knowledge of the plants of that country, I willingly dropped the idea of my intended publication for that time, and in 1807 took charge of that establishment.

Here I again endeavoured to pay the utmost attention to the collection of American plants, as the establishment was principally intended for that purpose. In this I was supported by my numerous botanical connections and friends, among whom I must particularly mention John Le Conte, Esq. of Georgia, whose unremitting exertions added considerably to the collection, particularly of plants from the Southern States.

The additions to my former stock of materials for a Flora were now considerable, and in conjunction with Dr. D. Hosack I had engaged to publish a periodical work, with coloured plates, all taken from living plants, and if possible from native specimens, on a plan similar to that of Curtis's Botanical Magazine; for which a great number of drawings were actually prepared. But at this period I was attacked by a serious and obstinate intermitting fever, which made a change of air and climate absolutely necessary to me; I therefore, in 1810, took a voyage to the West Indies, visiting the islands of Barbadoes, Martinique, Dominique, Guadaloupe, and

St. Bartholomew's, from which I returned in the autumn of 1811 in a perfect state of recovered health. The vessel in which I returned landed at the town of Wiscasset in the province of Main. This being a country I had never visited before, I examined its vegetation with all possible attention ; and although the season was too far advanced for making any new discoveries, I gained considerable information respecting the geography of plants, a point I always considered highly interesting to the science. During my journey towards New York, I had an opportunity of visiting Professor Peck of Cambridge College near Boston, and seeing his highly interesting collection of plants, collected on a tour to the alpine regions of the White Hills of New Hampshire. As the season was too far advanced when I was in that country to suffer me to think of ascending those mountains, this collection was highly gratifying to me.

On my return to New York, I found things in a situation very unfavourable to the publication of scientific works, the public mind being then in agitation about a war with Great Britain. I therefore determined to take all my materials to England, where I conceived I should not only have the advantage of consulting the most celebrated collections and libraries, but also meet with that encouragement and support so necessary to works of science, and so generally bestowed upon them there.

These expectations I found amply realized on my arrival in London. I had very soon the pleasure of forming a circle of acquaintance among those attached to the science of Botany, by whom I was gradually introduced

to the most eminent botanical characters of our age Sir Joseph Banks, with his accustomed liberality, supported my undertaking by giving me access to his extensive library and herbarium. A. B. Lambert, Esq. favoured me not only with the same assistance, but very handsomely offered me the entire use of his library and collection during the compilation of the work. To this gentleman I am in the highest degree indebted for his strenuous support under all the difficulties I had to encounter during its progress; which by his generous exertions he endeavoured to remove whenever they occurred.

Among the many new sources of information now opened to me, I must particularly mention the following original collections, by the assistance of which I have been enabled to correct many errors of former publications, particularly respecting the synonyms.

I. Clayton's Herbarium.—The whole of this interesting collection, from which the "*FLORA VIRGINICA*" of Gronovius was compiled, is preserved in the Banksian Museum. This has been particularly useful to me in tracing the plants which Linnæus had adopted from that work.

II. Professor P. S. Pallas's Herbarium.—This extensive collection, now in the possession of A. B. Lambert, Esq. was highly useful to me, in comparing the plants of North America with those of the North of Asia, to some of which they have a great affinity, and others are common to both continents.

III. Plukenet's Herbarium.—Preserved in the British Museum, as also part of

IV. Catesby's Herbarium.

V. Walter's Herbarium. This interesting collection, from which Walter's "*FLORA CAROLINIANA*" was compiled, is in possession of the Messrs. Frasers of Sloane Square, whose father was the intimate friend of Mr. Walter. They very kindly permitted me to make use of it whenever I had occasion to refer to it.

I am also highly indebted to William Roscoe, Esq., who very obligingly communicated to me Mr. Bradbury's Plants collected in Upper Louisiana. This valuable collection contains many rare and new species, having been collected in a tract of country never explored before: those which were entirely new I have described in the Supplement to the present work.

Besides these general collections, there were a number of interesting new plants in the Banksian Herbarium collected by different persons in North America. Among them I found a number of those collected by Archibald Menzies, Esq., during the famous expedition under Vancouver, on the north-west coast of America. As several of them had been described by me from the Lewisian collection, I requested permission of Mr. Menzies to adopt such as were immediately connected with my plan, which he very obligingly complied with.

The number of American plants in the different nurseries and private collections in the vicinity of London, contributed considerably to my resources, and I am highly indebted to those who gave me their assistance, particularly to Messrs. Lee and Kennedy, whose extensive collections exceed any other in Europe.

The accounts I had frequently heard of the celebrated Sherardian Herbarium at Oxford, made me particularly

anxious to examine it. Dr. G. Williams, professor of botany in that University, received me with that kindness so congenial to the true friend of science, and supported my researches to the utmost of his power. Besides the entire Herbarium of Morison, and other valuable collections, I found a general collection of North American plants, among which I was particularly gratified to find all those sent by Mr. M. Catesby to Dr. Sherard. This collection, though made a century ago, is in very fine preservation, and contains specimens of most of the new species of Walter, Michaux, &c. and even some entirely new ones, with the remarks and synonyms of Dr. Sherard, and frequently accompanied with the original letters of M. Catesby. In the same collection are also a number of rare specimens collected by a Mr. Tilden at Hudson's Bay, and those of John Bartram and other correspondents of Dr. Sherard. In fine, I consider this the most complete collection of North American plants now extant. The notes and remarks made here are given in the Appendix and Addenda, as it was not until the body of the work was printed that I had the opportunity of seeing this valuable collection.

Having thus given a general view of the means and resources I had in composing the present work, I shall only add a few remarks respecting its execution.

On a slight inspection of the work, it will be readily perceived that my chief object has been, throughout, to comprise as much matter as possible in the smallest space which attention to perspicuity would allow.

In respect to nomenclature I have followed Willdenow's "*SPECIES PLANTARUM*" and Michaux's "*FLORA*

BOREALI-AMERICANA" as near as possible, avoiding carefully to change old established names, however faulty, unless in cases where good authority furnished a more appropriate one. As for example, I have adopted *Fraxinus acuminata* of Lamarck, instead of *Fraxinus americana*, Linn., and *Cynoglossum amplexicaule* of Michaux for *Cynoglossum virginicum*, Linn. But I have never approved of such changes as *Juglans alba* and *cinerea* of Linnæus to *Juglans squamata* and *catartica*, as the younger Michaux in his "Arbres Forestiers" has done. This otherwise very useful publication is full of such new names, imposed on well known and long established species, and sometimes even without the least hint respecting their names in other authors.

The specific characters in most instances have been modelled anew or altered as it was found necessary. Wherever any alteration had been made it was necessary to quote the author from which the species had been taken in a separate line, as page 16 *Monarda didyma*; after the specific description I had to repeat that it was the same with *M. didyma*, Willd. sp. pl. 1. p. 125. To avoid this superfluous repetition, and save as much room as possible, I found it expedient to adopt, from page 72 to the end, the following mark (—), to be placed after the specific character whenever it had been amended; so that *Stipa avenacea*, page 72, is the same species described by Willd. sp. pl. 1. p. 442, but the character is new or augmented. Wherever the author follows the description without this mark, as page 73, *Saccharum giganteum*, Pers. ench. 1. p. 103, in that case the character has been adopted without alteration.

In some of the more intricate genera, as *Monarda*, *Vaccinium*, *Andromeda*, *Salix*, &c. the specific characters have been extended to a rather unusual length, which may be objected to by some, but I am persuaded will be approved of by most. The beauty of a short and perspicuous character is without doubt preferable to a long one, which the more it is extended the more ambiguous it will become; but the nature of certain genera will absolutely not admit this conciseness, and the works of some of the most celebrated authors have lately proved that it is inconvenient to be limited by a certain number of words in forming the specific character. Among many others I only need to mention Willdenow's last volume of the *Species Plantarum*, particularly the genus *Aspidium*, and Mr. Robert Brown's excellent "Treatise on the *Proteaceæ*," in the tenth volume of the *Transactions of the Linnean Society*. In both these works examples will be found, where the length of the specific character equals if not exceeds in number of words the longest in the present work.

It would have been needless to encumber the work with a superfluous number of synonyms, which can be found in the authors referred to; but those of a late date, or any way illustrative toward the true determination of the species, have been carefully collected, as the means I was possessed of were particularly favourable to the ascertainment of those points, which may be of the highest utility to future publications on the same subject.

In respect to the figures referred to, care has been taken to quote the most correct whenever there was a choice. The plates which accompany the work have

been carefully selected, either from highly interesting new plants, or those which will not admit of cultivation, as some of the *Rhexias*, *Lupinus*, *Gerardia*, &c. As the plates were executed during the progress of the work through the press, references to them could not be inserted in the proper places ; but as the plates themselves refer to the pages of the work, it will be easy to supply this deficiency.

Particular attention has been paid in describing the soil, situation, and range of country each species is found in, which will be found very useful to the practical botanist, and especially so to the cultivator of those plants.

After the usual sign of duration, and the time of flowering, each species has been faithfully marked whether I have seen it myself in a living state (*v. v.*), or only in a dried specimen (*v. s.*) : in the latter case the name of the herbarium I had it from is generally mentioned. Those I have adopted without seeing them myself in either state, and which are but few, I have marked (+).

To each species a short note has been added, respecting the colour and size of the flower, the habit of the plant, or some other interesting subject illustrative of the species.

Very full descriptions have been given of only some of the most interesting new species, as the limits of the work would not admit of it in general. The careful references to authors and good figures will amply supply this deficiency.

In the alteration made in the systematic arrangement,

I have been guided by the hints given by the learned Dr. J. E. Smith, in his excellent "Introduction to Botany." The classes Dodecandria and Polyadelphia are entirely omitted, and their genera inserted in their proper places in the other classes. *Asarum* next to *Aristolochia*, in Gynandria. *Bejaria*, *Portulacca*, *Talinum*, *Calligonum*, and *Hypericum*, in Polyandria. *Hudsonia* next to *Helianthemum*, with which it is closely related in the same class, *Decumaria*, *Lythrum*, *Cuphea*, and *Agrimonia*, in Icosandria. *Halesia* near *Styrax*, in Monadelphia. *Euphorbia* in Diclina, where it forms, with its other genera, a natural as well as artificial order. The nineteenth class, Diclina, contains the natural families of Tricocceæ or Euphorbia, Amnataceæ, and Coniferæ. The other genera of the classes Monœcia, Dioœcia, and Polygamia, having been referred to their proper classes. The genus *Diotis* more properly belongs to Tetrandria, but had been omitted in that class. *Najas* and *Valisneria* are genera of an order of this class, to which probably might be added all the Aroideæ. How far these alterations may meet the approbation of those best qualified to judge, I have yet to learn, but I am strongly persuaded they will facilitate the study of this lovely science to the young beginner.

In the last class, Cryptogamia, I have gone no further than the family of the *Filices*, according to the formation of the plan of this work, which only included plants which either are, or can be cultivated. The other orders, *Musci*, *Algæ*, and *Fungi*, will form a distinct work from the present, and may appear at some future

period in a more perfect shape than the limits of this work would admit ; it being absolutely necessary to illustrate those minute objects with correct figures, without which mere words are useless in describing them.

At the end of the work I have given a Table of Anomalous Flowers ; great pains have been taken to make it as correct as possible. This will be found of infinite service, particularly to the young botanist. For this purpose I shall give an example of the use of it. Should the young beginner, unacquainted with the genus *Galium*, happen to find *Galium trifidum*, vol. i. p. 103, he would in vain look for its genus in Triandria ; but by referring to this table among the anomalous genera, he will very easily find its proper genus. Again, by examining a flower of *Asclepias*, he might very probably consider the ten pollen masses for as many anthers, and look for its genus in Decandria, which by the assistance of this table he will trace to be Pentandria.

For the accommodation of the English reader, I have given a double Latin and English Index. Great attention has been paid to the correctness of the General Index, in which the first number in parentheses refers to the number of the genus, the other to the page. The synonyms are distinguished by being in Italics.

Notwithstanding the unremitting attention paid to the correctness of this work, the author is well aware that it will not be found free from those errors which are unavoidable in (nay almost inseparable from) publications of this nature, where so great a number of authorities are to be referred to. But he still consoles himself with the idea of having given to the world a work

which, with all its imperfections, will be found useful, and contribute to the general advancement and progress of the science. This has been the only aim, and will be the highest reward of the labours of

THE AUTHOR.

LONDON,

December 1813.

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I. MONANDRIA.

I. MONOGYNIA.

1. ZOSTERA. *Cal* et *Cor.* nulla. *Anth.* sessilis. *Caps.* 1-sperma. *Monoicum.*
2. CAULINIA. *Cal* et *Cor.* nulla. *Anth.* sessilis. *Styl.* filiformis. *Stigm.* 2-fidum. *Caps.* 1-sperma. *Monoicum.*
3. SALICORNIA. *Cal.* ventricosus, integer. *Cor.* 0. *Stam.* 1-2. *Sem.* 1, in fundo calycis.
4. HIPPURIS. *Cal.* margo bilobus, superus. *Cor.* 0. *Sem.* 1.

II. DIGYNIA.

5. PODOSTEMUM. *Cal* squamæ 2-3. *Cor.* 0. *Fil.* furcatum. *Anth.* 2. *Styl.* 0. *Stigm.* reflexa. *Caps.* 2-loc. 2-valv. polysperma.
6. CALLITRICHE. *Cal.* 2-partitus. *Cor.* 0. *Caps.* 2-ocularis, 4-sperma.
7. BLITUM. *Cal.* 3-fidus, baccatus. *Cor.* 0. *Sem.* 1.
8. CORISPERMUM. *Cal.* 2-partitus. *Cor.* 0. *Sem.* 1.

III. POLYGYNIA.

9. ZANNICHELLIA. *Cal.* 1-phyllus, turbinatus. *Cor.* 0. *Styl.* 3-5. *Stigm.* peltata. *Sem.* 3-5. nuda.
10. CHARA. *Cal.* et *Cor.* 0. *Stigm.* 5. *Bac.* polysperma.

I. MONOGYNIA.

1. ZOSTERA. *Gen. pl.* 1390. Grass-wrack.*marina.*

1. *Z. foliis integerrimis subtrinerviis, caule teretiusculo.*
Vahl. enum. pl. 1. p. 14.
Icon. Engl. bot. 467. *Fl. dan. t.* 15.
 In salt-marsh ditches, in the bay of Delaware, scarce.
 ♀. Aug. v. v. Leaves long; flowers very small.
 The leaves are narrower and more obtuse than in the European plant; in every other respect it appears to be the same.

2. CAULINIA. *Willd. in act. ac. ber.* 1798. p. 87.*fragilis.*

1. *C. foliis ternis oppositisve lineari-subulatis recurvatis aculeato-dentatis rigidis.* *Willd. sp. pl.* 4. p. 182.
Icon. Willd. l. c. t. 1. f. 2.—*Michel. gen. t.* 8. f. 3.
 In slow-flowing waters; Susquehanna, Kenhaway, &c. rivers. ☉. Aug. v. v. Immersed, floating.

flexilis.

2. *C. foliis senis linearibus apice denticulatis patentibus.*
Willd. sp. pl. 4. p. 183.
Icon. Willd. l. c. t. 1. f. 1.
 In small ponds and old ditches: New York to Carolina.
 ☉. Aug. v. v. Immersed, floating; flowers very small.

3. SALICORNIA. *Gen. pl.* 14. Samphire or Glasswort.*herbacea.*

1. *S. herbacea patula, articulis apice compressis emarginato bifidis, spicis axillaribus oppositis pedunculatis, squamis obtusis.* *Willd. sp. pl.* 1. p. 23.

*annua.**α Engl. bot.* 415.*simplex.**β ramis simplicissimis, caule prostrato.**gracilis.**γ caule stricto ramoso, ramis laxis.*

Var. *α* and *β* are common along the sea-coast: var. *γ* I observed on the Salt-lake of Onondago, New York.
 ☉. ♂. Aug. v. v. Fleshy, smooth; salt taste.

virginica.

2. *S. herbacea erecta, ramis simplicissimis indivisis: spicis longis articulatis.* *Willd. sp. pl.* 1. p. 25.

Frequent on the coast of Virginia and Carolina. ☉.
 July, Aug. v. v.; v. s in *Herbario Gronoviano in Museo Banksiano asservato.* Smaller than No. 1.

I consider this no more than a sub-species, and probably the same with *S. herbacea γ*.

3. *S. fruticulosa* assurgens inordinate ramosa. *Mich. fl. amer. 1. p. 2.* *ambigua.*

In sedgy salt-meadows; New Jersey to Carolina. ♂. ♀. July, Aug. *v. v.* Resembles *S. fruticulosa* very much; taller than either No. 1. or 2; pale green.

4. HIPPURIS. *Gen. pl. 15.* Mare's-tail.

1. *H. foliis plerumque senis linearibus.* *Mich. fl. amer. 1. p. 1.* *vulgaris.*

In ditches and small ponds: Canada to Pensylvania, rare. *U. v. s. s. fl.* Upright, simple; may be a new species.

II. DIGYNIA.

5. PODOSTEMUM. *Mich. fl. amer. 2. p. 164.*

1. *Podostemum.* *Mich. l. c. p. 165.*

Icon. *Mich. l. c. t. 44.*

*ceratophyl-
lum.*

Closely attached to loose stones in shallow water of the rivers Ohio, Holston, Kenhaway, &c. *U.* July. *v. v.*

I take the liberty to place this plant in Monandria, as it will be more easily found by a young Botanist under this head, than under Monœcia Diandria.

6. CALLITRICHE. *Gen. pl. 17.* Water-starwort.

1. *C. foliis superioribus spathulato-obovatis, inferioribus linearibus obtusis emarginatisque.* *heterophylla.*

C. verna *Willd. sp. pl. 1. p. 28?*

Icon. *Fl. dan. 129?*

In springs and rivulets, very common. ☉. May—July. *v. v.* Flowers white, axillary; upper leaves floating.

2. *C. foliis omnibus linearibus apice bifidis.*

linearis.

C. autumnalis. *Willd. sp. pl. 1. p. 29?*

In similar situations, not so common. ☉. May, June. *v. v.* More slender than No. 1. Upper leaves somewhat spathulate-linear.

3. *C. foliis omnibus linearibus truncatis brevibus approximatis.* *brevifolia.*

In sandy barren grounds, near mill-ponds, occasionally overflowed: New York to Virginia. ☉. Aug. *v. v.* Small, creeping along the ground, with a moss-like appearance; flowering seldom.

7. BLITUM. *Gen. pl.* 18. Strawberry-spinage.

capitatum.

1. B. foliis acute triangulo-hastatis, capitulis alternis in racemum superne aphyllum approximatis. *Mich. fl. amer.* 1. p. 2. *Willd. sp. pl.* 1. p. 30.

In woods and about houses, in Canada and the western parts of New York and Virginia. ☉. June, July. *v. v.* Flowers herbaceous; berries red.

8. CORISPERMUM. *Gen. pl.* 16. Tick-seed.

hyssopifolium.

1. C. spicis terminalibus, foliis linearibus enerviis muticis. *Willd. sp. pl.* 1. p. 28.

Icon. *Pall. fl. ross.* 2. t. 98.

In open plains, called Prairies, of Canada and on the banks of the Missouri River; found by M. Lewis, Esq. ½. Aug. Sept. *v. s. in Herbario Lewisiano.* Small shrub, of a gray aspect: flowers small, in axillary clusters.

III. POLYGYNIA.

9. ZANNICHELLIA. *Gen. pl.* 1391.

palustris.

1. Z. anthera quadriloculari, stigmatibus integerrimis, seminibus dorso denticulatis. *Willd. sp. pl.* 4. p. 181.

Icon. *Michel. gen. t.* 34. f. 1.

In ditches and small rivulets, in Virginia near the Sweet springs. ☉. July, Aug. *v. v.* Resembles *Potamogeton marinum*; flowers very small.

10. CHARA. *Gen. pl.* 1397.

vulgaris.

1. C. caulibus ramulisque basi nudis, ramulis teretibus, articulis foliosis, foliolis oblongo-subulatis, bracteis bacca brevioribus. *Willd. sp. pl.* 4. p. 183.

Icon. *Engl. bot.* 336.

Feather-beds.

Floating in old ponds and ditches: Canada to Carolina, common. ☉. July, Aug. *v. v.* Incrusted; smells disagreeably.

2. *C. caulibus nudis superne papillois, ramulis teretibus basi et in articulis foliosis, foliis linearibus, bracteis bacca brevioribus.* Willd. *sp. pl.* 4. p. 184.

foliolosa.

Icon. Willd. in *act. ac. ter. t.* 1. f. 2.

In clear waters and small ponds: Pennsylvania, Virginia, &c. ☉. July. *v. v.* Green, shining, fragile.

3. *C. caulibus diaphanis nudis, ramulis inarticulatis aphyllis compressis, baccis nudis lateralibus.* Willd. *sp. pl.* 4. p. 187.

flexilis.

Icon. *Engl. bot.* 1070.

In muddy pools and ditches in the western part of Pennsylvania, &c. ☉. Aug. *v. v.* Green, flexile, tender, transparent.

II. DIANDRIA.

I. MONOGYNIA.

* *Fl. completi, inferi, 1-pet. regulares.*

12. OLEA. *Cor.* 4-fida : laciniis subovatis. *Drupa* 1-sperma.
13. CHIONANTHUS. *Cor.* 4-fida : laciniis longissimis. *Drupa* 1-sperma : nuce striata.
14. ORNUS. *Cor.* 4 partita : petalis longis ligulatis. *Fil.* longa. *Nux* alata.
11. LIGUSTRUM. *Cor.* 4-fida. *Bac.* 2-loc. : loculis 2-spermis.

** *Fl. completi, inferi, 1-pet. irregulares, angiospermi.*

18. VERONICA. *Cor.* limbo 4-partito : lacinia inferiore angustiore. *Caps.* 2-loc.
17. MICRANTHEMUM. *Cor.* subcampanulata, 4-partita : lacinia superiore minore. *Caps.* 2-valv. 1-loc. polysperma.
19. GRATIOLA. *Cor.* irregularis, resupinata. *Stam.* 2. sterilia. *Stigm.* 2-lob. *Caps.* 2-loc.
16. CATALPA. *Cor.* irregularis, 5-fida. *Cal.* 2-phyllus. *Caps.* 2-locularis.
20. ELYTRARIA. *Cor.* 5-fida, subæqualis. *Stam.* 2. sterilia. *Caps.* 2-loc.
21. JUSTICIA. *Cor.* irregularis. *Caps.* 2-loc. 2-valvis. *Anth.* geminæ.
22. PINGUICULA. *Cor.* ringens, calcarata. *Caps.* 1-loc. *Cal.* 2-lab. 5-fidus.
23. UTRICULARIA. *Cor.* ringens, calcarata. *Caps.* 1-loc. *Cal.* 2-phyllus, æqualis.

*** *Fl. completi, inferi, 1-pet. gymnospermi.*

24. LYCOPUS. *Cor.* tubulosa, subæqualis, 4-fida : lacinia superiore latiore emarginata. *Sem.* 4 retusa.
25. MONARDA. *Cor.* ringens : labium superius lineare, filamenta involvens.

26. SALVIA. *Cor.* ringens. *Filam.* transverse pedicello affixa.

27. COLLINSONIA. *Cor.* inæqualis : labio inferiore multifido, capillari. *Stam.* 2—4. *Sem.* 4. 3. abortientia.

**** *Fl. completi, superi.*

28. CIRCÆA. *Cor.* 2 petala. *Caps.* 2-loc. : loculis 1-spermis.

***** *Fl. incompleti.*

15. FRAXINUS. *Cor.* 0. vel 4 pet. *Samara* 2-loc. *Sem.* 1. *Polygamum.*

29. CERATIOLOA. *Cal.* gemma. *Cor.* 0. *Bac.* 2-sperma.

30. BORYA. *Cal.* 4-phyllus. *Cor.* 0. *Bac.* 1-sperma.

31. LEMNA. *Cal.* 1-phyllus. *Cor.* 0. *Caps.* 1-loc. 2-sperma.

I. MONOGYNIA.

11. LIGUSTRUM. *Gen. pl.* 23. Privet. Prim.

1. *L. foliis lanceolatis acutiusculis, panicula coarctata.* *vulgate.*
Willd. sp. pl. 1. p. 41.

Icon. Engl. bot. 764.

In hedges on road sides, frequent ; scarce in remote woods : Canada to Virginia. $\frac{1}{2}$. May—July. *v. v.* Flowers in white panicles ; berries black.

12. OLEA. *Gen. pl.* 25. Olive-tree.

1. *O. foliis lanceolato-ellipticis integerrimis, racemis angustatis, bracteis omnibus persistentibus connatis parvis.* *americana.*
Willd. sp. pl. 1. p. 45.

Icon. Catesb. car. 1. t. 61. *Devil's-wood.*

On the sea-coast, in sandy boggy places : Carolina, Florida, &c. $\frac{1}{2}$. April, May. *v. v.* Flowers small, white ; berries globular, purple, eatable.

13. CHIONANTHUS. *Gen. pl.* 26. Fringe-tree.

1. *C. panicula terminali trifida, pedunculis trifloris, foliis acutis.* *virginica.*
Willd. sp. pl. 1. p. 46.

Icon. *Catesb. car.* 1. t. 68.

montanus. α foliis ovali lanceolatis coriaceis glabris, paniculis densis, drupis ovalibus.

C. v. latifolia. *Ait. kew.* 1. p. 23.

maritimus. β foliis obovato-lanceolatis membranaceis pubescentibus, paniculis laxissimis, drupis ellipticis.

C. v. angustifolia *Ait. kew.* 1. p. 23.

Var. α in the mountains of Pennsylvania and Carolina, β on the sea-coast in boggy woods from New Jersey to Carolina. h_2 . May, June. *v. v.* Flowers white, very handsome; berries purplish-blue.

It is probable that those, as yet considered subspecies, are really distinct species, which further observations will decide.

14. ORNUS. *Dalech.* Flowering-ash,

americana. 1. O. foliolis late ovatis serratis; impari fere obcordato. *Pers. ench.* 2. p. 205.

In moist shady woods: Maryland and Virginia, rare. h_2 . May. *v. v.* Flowers resembling those of *Chionanthus*; seeds small, winged.

15. FRAXINUS. *Gen. pl.* 1597. Ash-tree.

sambucifolia. 1. F. foliolis sessilibus ovato-lanceolatis serratis rugoso-nitidis, basi rotundatis inæqualibus, axillis venarum subtus villosis, floribus nudis. *Willd. sp. pl.* 4. p. 1099.

Icon. *Mich. f. arb. t. . . .* *Black-ash, Water-ash.*

In stony soil, on river sides from Canada to Virginia. h_2 . April. *v. v.*

quadrangulata. 2. F. foliolis subsessilibus lanceolato-ellipticis serratis, subtus pubescentibus, samaris utrinque obtusis. *Willd. sp. pl.* 4. p. 1102.

Icon. *Mich. f. arb. t. . . .* *Blue-ash.*

In rich bottoms of the western states: Ohio, Kentucky and Tennessee. h_2 . May. *v. v. s. fl.*; *v. s. c. fr.*

epiptera. 3. F. foliolis lanceolato-ellipticis subserratis, samaris cuneatis apice obtusis emarginatis inferne teretibus. *Vahl. enum. pl.* 1. p. 50

F. discolor. *Mich. f. arb.* 33.

F. canadensis. *Gært. de fr. et sem.* 1. p. 222. t. 49.

Icon. *Mich. f. arb. t. . . .*

On water-sides and rich bottom lands, from Canada to Carolina, frequent. h_2 . April. *v. v.*

4. *F. foliolis petiolatis oblongis nitidis acuminatis integerrimis subtus glaucis, floribus calyculatis.* *Lam. encycl. 2. p. 542.* *acuminata.*
F. americana. *Willd. sp. pl. 4. p. 1102.*
F. concolor. *Mich. f. arb. 33.*
 Icon. *Mich. l. c. . . .* *White-ash. Green-ash.*
 Common in most woods from Canada to Carolina. $\frac{1}{2}$. April. *v. v.*
5. *F. foliolis petiolatis lanceolatis serrulatis nitidis glabris, ramulis glabris, floribus calyculatis.* *Willd. sp. pl. 4. p. 1103.* *caroliniana.*
F. serratifolia. *Mich. f. arb. p. 33.*
F. excelsior. *Walt. fl. car. p. 254.*
 Icon. *Mich. f. arb. t. . . .* *Shining-ash.*
 In rocky situations, from Pennsylvania to Carolina, scarce. $\frac{1}{2}$. May. *v. v. s. fl.*
6. *F. foliolis subsessilibus extrorsum serratis samarisque lanceolato-ellipticis.* *Willd. sp. pl. 4. p. 1103.* *platycarpa.*
 Icon. *Catesb. car. t. 80. Mich. f. arb. t. . . .*
 In boggy woods of Virginia and Carolina. $\frac{1}{2}$. April, May. *v. s.*
7. *F. foliolis petiolatis elliptico-ovatis serratis subtus petiolis ramulisque tomentosis, floribus calyculatis.* *Willd. sp. pl. 4. p. 1103. Walt. fl. car. p. 234. Lam. encycl. 2. p. 543.* *pubescens.*
F. nigra. *Du Roi, ed. 2. t. 1. p. 398.*
F. tomentosa. *Mich. f. arb. p. 33.*
 Icon. *Mich. l. c. t. . . .* *Red-ash. Black-ash.*
- β *foliolis ovato-lanceolatis attenuatis subserratis.* *longifolia.*
 γ *foliolis ovatis latioribus obsolete ad medium usque serratis.* *latifolia.*
- δ *foliolis elliptico-oblongis acuminatis argute serratis inferne subpubescentibus, petiolo communi glaberrimo.* *subpubescens.*
Pers. ench. 2. p. 605.
 Common in the woods of Canada and the United States. $\frac{1}{2}$. April, May. *v. v.*
8. *F. foliolis petiolatis ovatis opacis serratis subtus glaucis axillis venarum pubescentibus, ramulis glabris, floribus calyculatis.* *Willd. sp. pl. 4. p. 1104.* *juglandifolia.*
F. caroliniana. *Wangh. amer. 81.*
 Icon. *Mich. f. arb. t. . . .* *Western Black-ash.*
 In shady wet woods, from Canada to North Carolina; chiefly in the western districts. $\frac{1}{2}$. May. *v. v.*

16. CATALPA. *Juss. gen.* 138. Catalpa-tree.

- syringæfolia.* 1. *C. foliis cordatis planis.* *Sims in bot. mag.* 1094.
Bignonia Catalpa. *Willd. sp. pl.* 3. p. 289.
C. biguonioides. *Walt. fl. car.* p. 64.
Icon. *Schmidt, arb.* 1. t. 41.
 On the banks of Ohio, Mississippi and Delaware, in
 gravelly soil. ½. July, Aug. *v. v.* Flowers white,
 speckled with purple and yellow.

17. MICRANTHEMUM. *Mich. fl. amer.* 1. p. 10.

- orbiculatum.* 1. *Micranthemum.* *Mich l. c.*
Anonymos umbrosa. *Walt. fl. car.* p. 63.
Globifera umbrosa. *Gmel. syst. nat. t. 2. p. 1. p. 32.*
Icon. *Mich l. c t 2.*
 In shady wet woods of Carolina and Georgia ¼. Aug.
v. v. Stem creeping; leaves orbicular; flowers axil-
 lary, very small.

18. VERONICA. *Gen. pl.* 32. Speedwell.

- virginica.* 1. *V. spicis terminalibus, foliis quaternis quinisque.* *Willd.*
sp. pl 1 p 34.
Icon. *Pluk. alm. t. 70. f. 2.*
 On calcareous hills, in sunny exposures. ¼. July—
 Sept. *v. v.* Spikes long, white, or blush-colour.
 On the mountains of Virginia I observed a very tall-
 growing variety, with purple flowers, extremely beau-
 tiful.
- officinalis.* 2. *V. spicis lateralibus pedunculatis, foliis oppositis obovato-*
subrotundis pilosis annuis, caule procumbente hirt.
Willd. sp pl 1. p. 59.
Icon. *Engl bot.* 765. *Fl. dan.* 248.
 In barren, dry woods, very common from Canada to
 Carolina. ¼. May—July. *v. v.*
- reniformis.* 3. *V. spicis lateralibus pedunculatis, foliis oppositis reni-*
formi-cordatis inciso-crenatis, caule repente.
 Collected by Messrs. Lewis and Clark in boggy soil, on
 the banks of the Missouri. ¼. June. *v. s. in Herb.*
Lewis.
Caulis repens, filiformis, ad geniculos radicans. Folia
opposita, longe petiolata, reniformi-cordata, inciso-
crenata, glabra. Pedunculi axillares, alterni, lon-
gitudine foliorum, teretes, glabri, superne unibrac-
teati. Bractea oblonga, crenata. Spica oblonga,

brevis. Flores magni, conferti, pallide cærulei. *Cal.* 4-fidus : laciniis 2. superioribus oblongis; 2. inferioribus linearibus, multo minoribus. *Cor.* *Tubus* brevissimus. *Limbus* planus : laciniis oblongis, acutis, calyce triplo longioribus, infima lineari. *Fil.* longitudine corollæ.

4. *V. racemo terminali subspicato, foliis ovatis glabris cre-* *serpyllifolia.*
natis. *Willd. sp. pl. 1. p. 64.*

Icon. *Fl. dan.* 492.

On road sides and in dry woods, common. $\mathcal{U}$. May
—Aug. *v. v.* Creeping; flowers pale with blue
stripes.

5. *V. racemis lateralibus, foliis ovatis planis, caule repente.* *Beccabunga.*
Willd. sp. pl. 1. p. 64.

Icon. *Engl. bot.* 655. *Fl. dan.* 511.

In rivulets and springs; Pennsylvania to Virginia, rare.
 $\mathcal{U}$. June, July. *v. v.* Leaves shining green, blunt;
flowers large, blue.

6. *V. racemis lateralibus, foliis lanceolatis serratis, caule* *Anagallis.*
erecto. *Willd. sp. pl. 1. p. 65.*

Icon. *Engl. bot.* 781. *Fl. dan.* 903.

In ditches and rivulets, more common: Canada to Car-
olina. $\mathcal{U}$. June—Aug. *v. v.* Leaves acute.

7. *V. racemis lateralibus alternis: pedicellis pendulis, foliis* *scutellata.*
linearibus. *Willd. sp. pl. 1. p. 65.*

Icon. *Engl. bot.* 782. *Fl. dan.* 209.

Var. foliis integerrimis et serratis.

In wet meadows on gravelly soil. $\mathcal{U}$. July. *v. v.*

The American plant has longer leaves than any of the
European specimens I have seen.

8. *V. floribus solitariis foliisque cordatis subsessilibus, caule* **arvensis.*
hirto. *Willd. sp. pl. 1. p. 73.*

Icon. *Engl. bot.* 734. *Fl. dan.* 515.

Common in fields and cultivated grounds. ☉. May—
Sept. *v. v.* Flowers blue, small.

9. *V. floribus sessilibus, foliis lineari-lanceolatis dentatis* *peregrina.*
integerrimisque, caule erecto. *Willd. sp. pl. 1. p. 76.*

Vahl. enum. pl. 1. p. 85.

V. romana. *Linn. mant.* 317.

V. marylandica. *Murr. in com. goet.* 1782, p. 11, t. 3.

V. caroliniana. *Walt. fl. car.* p. 61.

V. carnosula. *Lam. illustr.* 1. p. 47.

Icon. *Murr. l. c.* *Fl. dan.* 407.

In cultivated ground, common. ☉. May—Aug. *v. v.* ;
v. s. in Herbario Wulteriano, necnon Gronoviano.
 Very variable in habit. Flowers small, white.

19. GRATIOLA. *Gen. pl.* 37.

aurea.

1. *G. foliis lato-linearibus sessilibus integerrimis 3-nerviis supra punctatis, pedunculis oppositis vix longitudine foliorum; filamentis castratis nullis.*

G. officinalis. Mich. fl. amer. 1. p. 6.

G. caroliniensis. Pers. ench. 1 p. 14.

In sandy wet places, in the pine-barrens of New England, New Jersey and Carolina. ♀. Aug. *v. v.* ;
v. s. in Herbario Banksiano. *Golden-pert.*

Caulis bisulcatus, quadrangulus, basi ramosus. *Folia* basi dilatata, sessilia, acuta, glabra. *Pedunculi* longitudine foliorum, villosi. *Cal.* laciniis linearibus, apice glandulosis. *Cor.* aurea. *Tubus* hirsutus, medio ventricosus, obliquus. *Lab.* superius subrotundum, emarginatum: inferius æqualiter trifidum, laciniis oblongis: intermedia emarginata. *Faux* hirsuta. *Fil.* 2. longitudine tubi corollæ. *Stylus* staminibus longior. *Stigma* infundibuliforme, obliquum. *Capsula* ovata, vix longitudine calycis.

virginica.

2. *G. foliis obovato-lanceolatis inferne attenuatis remote dentatis nervosis glabris, pedunculis alternis brevissimis, capsulis acuminatis calyce longioribus.*

G. foliis lanceolatis obtusis subdentatis. Gron. virg. 3.

G. virginica. Willd. sp. pl. 1. p. 104.

G. acuminata. Vahl. enum. pl. 1. p. 92. exclus. syn.

In old ditches and pools from Pensylvania to Carolina. ♀. June, July. *v. v.* ; *v. s. in Herb. Gronov.* Stem rooting at the joints; flowers yellowish white.

quadridentata.

3. *G. foliis lineari-lanceolatis extrorsum remote paucidentatis, pedunculis longitudine foliorum, capsula calyce subulato triplo brevior.* *Mich. fl. amer. 1. p. 6.*

G. ramosa. Walt. fl. car. p. 61.

G. virginica. Lam. illustr. 1. p. 54. t. 16. f. 2. Vahl. enum. pl. 1. p. 89.

In sandy wet fields, edges of ponds, &c. Carolina. ♀. June—Aug. *v. v.* ; *v. s. in Herb. Walt.*

acuminata.

4. *G. foliis lanceolatis serratis pubescentibus, pedunculis oppositis folio longioribus, calycis foliolis linearibus longitudine capsulæ subglobosæ.*

G. acuminata. *Walt. fl. car. p. 61. nec Vahl. enum.*

In ditches and pools: Pennsylvania to Carolina. $\mathcal{U}$.

July, Aug. *v. v.*; *v. s.* in *Herb. Walt.* Flowers pale yellow, large. Caps. larger than any other.

5. *G. foliis cordato-ovatis, floribus axillaribus subsessilibus cauleque erecto pilosis.* *Vahl. enum. pl. 1. p. 94.*

pilosa.

G. peruviana. *Walt. fl. car. p. 62.*

In pine-barrens: Carolina and Georgia. $\mathcal{U}$. June—

August. *v. v.*; *v. s.* in *Herb. Walt. et Banks.*

G. anagalloidea Mich. &c. vid. Lindernia.

G. repens Swartz. et Monnieria Mich. vid. Herpestis.

20. ELYTRARIA. *Mich. fl. amer. 1. p. 8.*

1. *E. squamis floriferis ovatis margine villosis, scapi foliisque lanceolatis integerrimis glabris.* *Vahl. enum. pl. 1. p. 106. Mich. fl. amer. 1. p. 9.*

virgata.

Justicia acaulis γ . *Willd. sp. pl. 1. p. 84.*

Anonymos caroliniensis. *Walt. fl. car. 60.*

Tubiflora caroliniensis. *Gmel. syst. nat. 2. p. 1, 27.*

Icon. Mich. l. c. t. 1.

In wet sandy woods of Lower Carolina. $\mathcal{U}$. July,

Aug. *v. v.* Flowers white, imbricated.

21. JUSTICIA. *Gen. pl. 35.*

1. *J. spicis axillaribus, floribus confertis, pedunculis elongatis alternis, foliis lanceolatis.* *Vahl. enum. pl. 1. p. 146. sub J. americana. Mich. fl. amer. 1. p. 7.*

pedunculosa.

Dianthera americana. *Linn. syst. veg. 64.*

Dianthera ensiformis. *Walt. fl. amer. 63.*

Justicia linearifolia. *Lam. illustr. 1. p. 41.*

Icon. Pluk. alm. t. 423 f. 5. Water-willow.

In bays and slow-flowing waters of the rivers St. Lau-

rence, Oswego, Ohio, Kenhaway, &c. July, Aug.

v. v.; *v. s.* in *Herb. Walt. et Gronov.*

2. *J. spicis axillaribus terminalibusque paucifloris, floribus distantibus, bracteis linearibus, foliis lanceolato-oblongis.* *Vahl. enum. pl. 1. p. 143.*

humilis.

Dianthera ovata. *Walt. fl. car. p. 63.*

In swamps of Carolina and Florida. $\mathcal{U}$. July, Aug.

v. s. in *Herb. Walt.*

3. *J. pedunculis axillaribus racemoso-verticillatis: pedicellis geminis, bracteis obovatis trifloris, foliis ovatis acutis, petiolis longissimis, caule sexangulati ramossimo.*

brachiata.

On the islands of Roanoak river in North Carolina. 24. July, Aug. *v. v.*

Caules plures, geniculati, hexagoni: angulis oppositis sulcatis, brachiato-ramosissimi, glabri. *Folia* opposita, longe petiolata, ovato-oblonga, sensim acuta, integerrima, glabriuscula; nervis, venis, petiolisque tenuae pilosa. *Ramuli floriferi* axillares, breves, foliosi. *Pedunculi* axillares gemini vel terni. *Bracteae* duae, obovatae, altera minor. *Flores* 2-3. sessiles, rubelli. *Cal.* simplex, 5-fidus: laciniis subulatis. *Cor* extus pilosa. *Tubus* tortuosus. *Limbus* resupinatus, 2-labiat: labium superius obliquum, oblongum, acutum, plerumque emarginatum: inferius truncatum, 3-4-dentatum, fauce striatum. *Antherae* 2. in singulo filamentum. *Stigm.* bifidum. *Caps.* oblonga, compressa, mucronata. *Sem.* compressa, hispida, atrofusca.

22. PINGUICULA. *Gen. pl.* 40.

clatior.

1. *P. nectario subulato obtuso corolla brevior, superne tubo ventricosus, scapo inferne villosus. Vahl. enum. pl. 1. p. 19. Mich. fl. amer. 1. p. 11.*

P. caerulea. Walt. fl. car. p. 63.

In open swamps on the sands of Carolina and Georgia. 24. May. *v. v.* Flowers of a beautiful amethystine colour.

lutea.

2. *P. nectario subulato recurvo corolla campanulata brevior, fauce barbata, labiis dentatis, scapo subvillosus. Vahl. enum. pl. 1. p. 93. Walt. fl. car. p. 63. Mich. fl. amer. 1. p. 11.*

P. campanulata. Lam. in diar. hist. nat. 1. n. 9. p. 336. t. 18. f. 1.

In pine-barrens of Lower Carolina. 24. April, May. *v. s.* Flowers yellow; leaves obovate.

pumila.

3. *P. nectario tubo brevior, corolla oblongiuscule tubulosa, scapo brevi glabellus. Mich. fl. amer. 1. p. 11.*

In open swamps of Georgia. 24. May. +. Flowers small, purple.

acutifolia.

4. *P. glaberrima, foliis erectis ovalibus acutissimis. Vahl. enum. pl. 1. p. 194. Mich. fl. amer. 1. p. 11.*

In shady woods, near rivers about Lake Mistassins. 24. July. +.

23. UTRICULARIA. *Gen. pl.* 41.

1. *U. scapi foliis vesiculosis cylindricis divisis apice ramentaceis. Vahl. enum. pl. 1. p. 197. Mich. fl. amer. 1. p. 12.* *ceratophylla.*
U. inflata. Walt. fl. car. p. 64.
 Floating in ponds and lakes of Virginia and Lower Carolina. June, July. *v. v.*; *v. s. in Herb. Walt.*
 Flowers yellow.
2. *U. nectario conico, labio superiore lateribus reflexo longitudinaline palati, scapo stricto. Vahl. enum. pl. 1. p. 198. Willd. sp. pl. 1. p. 112.* *vulgaris.*
Icon. Fl. dan. 138.
 In stagnant waters in the western parts of New York and Pennsylvania. *U.* July. *v. v.* Flowers large, yellow, with red veins.
3. *U. nectario gibbo carinato, corollarum fauce aperta. Vahl. enum. pl. 1. p. 199. Willd. sp. pl. 1. p. 112.* *minor.*
Icon. Fl. dan. 128.
 In swamps and ditches, in the pine-barrens of New Jersey. *U.* Aug. *v. v.* Flowers small, deep yellow.
4. *U. nectario obtuso, scapo subunifloro foliisque setaceis. Vahl. enum. pl. 1. p. 199. Walt. fl. car. p. 64.* *filrosa.*
 In morasses of the pine barrens of Carolina. July. *v. s. in Herb. Walt.* Stems purple; flowers orange.
5. *U. nectario subulato recto labio superiore subæquante, scapo subbifloro, foliis setaceis. Vahl. enum. pl. 1. p. 200. Lam. illustr. 1. p. 50.* *biflora.*
U. pumila. Walt. fl. car. p. 64.
 On the margin of ponds in Lower Carolina. July. *v. s. in Herb. Walt.* Flowers small, yellow.
6. *U. nectario obtuso labio inferiore brevior; scapo subbifloro.* *subulata.*
U. nectario subulato. Gronov. virg. 5. exclus. syn. Clayt.
U. setacea. Mich. fl. amer. 1. p. 12. Vahl. enum. pl. 1. p. 201.
 In sandy wet places near ponds and rivers, from Canada to Carolina, common. ☉. July, Aug. *v. v.*; *v. s. in Herb. Gronov.* Flowers small, bright yellow.
7. *U. nectario carinato brevissimo, laciniis corollæ rotundatis, scapo 2-3-floro. Walt. fl. car. p. 64.* *purpurea.*
 Floating on the lakes and ponds in Carolina; I observed

it likewise in Pennsylvania, on the Broad-mountains.
 ☉. Aug. *v. v.* Flowers bright purple, small.

- cornuta.* 8. *U. nectario subulato porrecto, corollæ labium inferius amplissimum, scapo subsessiliter bifloro. Mich. fl. amer. 1. p. 12.*
 Near mountain lakes from Canada to Virginia. July. *v. v.* Flowers large, bright yellow.
- gibba.* 9. *U. nectario gibboso, laciniis corollæ rotundatis, scapo subunifloro. Willd. sp. pl. 1. p. 113.*
 In boggy soil of New Jersey and Carolina. July. *v. v.* ; *v. s. in Herb. Gronov.* Very small; flowers yellow.

24. LYCOPUS. *Gen. pl. 44.* Water-horehound.

- europæus.* 1. *L. foliis inferioribus incis, superioribus lanceolatis serratis, calycibus subspinescenti-acuminatis. Mich. fl. amer. 1. p. 14. Willd. sp. pl. 1. p. 120.*
 Near rivers and ponds from Canada to Virginia. ♀. July, Aug. *v. v.* Flowers white, small, in whorls.
- virginicus.* 2. *L. foliis lato-lanceolatis serratis basi integra angustatis, calycibus brevissimis muticis. Mich. fl. amer. 1. p. 14.*
- quercifolius.* β *foliis sinuato-pinnatifidis.*
 In wet places from New England to Carolina; var. β in high mountain woods of Virginia. ♀. June, Aug. *v. v.* Flowers white; leaves smooth.
- pumilus.* 3. *L. foliis lanceolatis subseriatis glabris, stolonibus procumbentibus. Vahl. enum. pl. 1. p. 211.*
L. uniflorus. Mich. fl. amer. 1. p. 14.
 In Canada. ♀. Flowers solitary; stems low.
- obtusifolius.* 4. *L. foliis lanceolatis remote obtuse serratis. Vahl. enum. pl. 1. p. 212.*
 At Hudson's Bay. *Michaux. ♀. +.*

25. MONARDA. *Gen. pl. 48.*

- didyma.* 1. *M. glabriuscula, capitulis magnis proliferis, bracteis exterioribus coloratis magnis oblongis acuminatis subintegerrimis; calycibus corollisque longis glabriusculis, foliis lato-ovatis subcordatis acuminatis serratis rugosis; serraturis mucronatis, caule acutangulo glabro.*
M. didyma. Willd. sp. pl. 1. p. 125.
M. purpurea. Lam. encycl. 4. p. 256.

Monarda kalmiana.

M. coccinea. Mich. fl. amer. 1. p. 16.

Icon. Mill. ic. t. 183. f. 1. Bot. mag. 546. Oswego tea.

In rivulets on the high mountains of North Carolina.

Michaux. 24. June—Sept. v. v. in Hortis. Flowers long, scarlet.

2. *M. sparse hirsuta*, capitulis magnis simplicibus, bracteis exterioribus coloratis lanceolatis attenuatis, calycibus corollisque pubescentibus, corollis longissimis, foliis oblongis attenuatis serratis undique pilis sparsis hirsutis, caule acutangulo petiolisque ciliato-piloso.

Kalmiana.

In boggy woods in black rich soil, near Onondago and Oswego, New York. 24. v. v.; v. s. spec. *Kalmianum* in Museo Banksiano, sub nomine *M. didymæ*. Flowers very long, beautiful crimson; leaves somewhat fragrant; stems double the size of *M. didyma*.

3. *M. glabriuscula*, capitulis mediocribus simplicibus, bracteis exterioribus oblongis, calycibus glabriusculis, foliis ovatis subcordatis acutis rugosis glabris, nervis subtus coloratis pilosis, caule acutangulo hirtio.

rugosa.

M. rugosa. Ait. kew. ed. 2. 1. p. 51.

In Canada. 24. July—Sept. v. s. in Museo Banksiano. Flowers small, white.

4. *M. glabra*, capitulis parvis simplicibus terminalibus, bracteis exterioribus lato-ovatis acutis integerrimis glabriusculis, calycibus brevibus ciliatis, corollis pubescentibus tenuibus, foliis ovato-oblongis acuminatis serratis pilosiusculis, caule obtusangulo glabro.

clinopodia.

M. clinopodia. Willd. sp. p! 1. p. 125. excl. syn. Gronov.

M. glabra. Lam. encycl. 4. p. 256?

In dry gravelly soil from Canada to Carolina, particularly on the mountains. 24. July—Sept. v. v. Flowers yellow with purple specks.

The specimen of Gronovius in the Banksian Museum is *Clinopodium incanum*.

5. *M. glaberrima*, capitulis parvis nudiusculis lateralibus terminalibusque, bracteis exterioribus linearibus ciliatis, calycibus pubescentibus ciliatis, corollis brevibus tenuissimis glabris, foliis lineari-lanceolatis acuminatis serratis glabris, caule obtusangulo glabro.

gracilis.

In the mountains of South Carolina and Virginia. v. v.; v. s. in Herb. Lyon. Flowers yellowish white.

6. *M. glabriuscula*, capitulis magnis foliosis, bracteis exterioribus magnis coloratis lato-ovatis acuminatis serratis

purpurea.

ratis, calycibus coloratis fauce barbatis, corollis longis glabriusculis, foliis ovato-oblongis acutis grosse serratis: nervis undique pilosis, caule acutangulo glabro.

M. clinopodia. *Vahl. enum. pl.* 1. p. 218. *descriptio*.

M. fistulosa var. *crimson.* *Bot. mag.* 145.

Icon. Bot. mag. 145.

In the mountains of Virginia. $\mathcal{U}$. July—Sept. *v. v.* ;
v. s. in Herb. Lambert. Flowers crimson, large.

oblongata.

7. *M. undique hirsuta*, capitulis simplicibus, bracteis exterioribus ovatis acutis, calycibus brevibus fauce barbatis: dentibus divaricatis, caule obtusangulo superne hirsuto.

M. oblongata. *Ait. kew. ed.* 2. 1. p. 51.

M. longifolia. *Lam. encycl.* 4 p. 255.

Frequent in the mountains of Pennsylvania and Virginia.

$\mathcal{U}$. July, August. *v. v.* Flowers pale purple.

mollis.

8. *M. cano-pubescens*, capitulis simplicibus, bracteis exterioribus cordato-ovatis acutis, calycibus brevibus fauce dense barbatis, corollis hirsutis: galea apice longissime barbata, foliis oblongis attenuatis basi rotundatis serratis utrinque cano-pubescentibus, caule acutangulo hirsuto.

M. mollis. *Lin. amœn. acad.* 3. p. 399.

M. fistulosa β . *Willd. sp. pl.* 1. p. 124.

M. allophylla. *Mich. fl. amer.* 1 p. 16.

In the mountains of Virginia and Carolina. $\mathcal{U}$. July—Sept. *v. v.* Flowers pale purple.

fistulosa.

9. *M. villis sparsis hirsuta*, capitulis simplicibus proliferisque foliosis, bracteis exterioribus oblongis acutis glabriusculis, calycibus longis barbatis, corollis hirsutis mediocribus, foliis ovatis acuminatis serratis, petiolis longis ciliatis, caule obtusangulo glabro.

M. fistulosa. *Willd. sp. pl.* 1. p. 124.

Icon. Mill. icon. t. 122. f. 2.

In hedges and woods, from Canada to Carolina, common.

$\mathcal{U}$. July—Sept. *v. v.* Flowers purplish.

punctata.

10. *M. glabriuscula*, floribus mediocribus verticillatis, bracteis lanceolatis nervosis coloratis verticillo longioribus, foliis lanceolato-oblongis remote serratis glabris, caule obtusangulo villosa-canesciente.

M. punctata. *Willd. sp. pl.* 1. p. 126.

M. lutea. *Mich. fl. amer.* 1. p. 16.

Icon. Pluk. alm. t. 24 f. 1. *Bot. rep.* t. 546.

In sandy fields from New Jersey to Carolina. $\mathcal{U}$. June—August. *v. v.* Flowers yellow, punctated.

11. *M. hirsuta*, floribus parvis verticillatis, bracteis ovatis glabris venosis ciliatis calycem æquantibus, foliis ovato-oblongis attenuatis subsessilibus serratis subpilosis, caule acutangulo hirsuto. *ciliata.*

M. ciliata. Willd. *sp. pl.* 1. p. 126.

On slate hills in Virginia and Carolina. $\mathcal{U}$. June—Aug. *v. v.* Flowers small, blue.

12. *M. undique pilis longis albidis hirsutissima*, floribus parvis verticillatis, bracteis brevissimis oblongis acumina-
tis, calycibus longe aristatis, foliis ovatis acuminatis serratis longe petiolatis, caule acutangulo hirsuto. *hirsuta.*

M. ciliata. Mich. *fl. amer.* 1. p. 16.

In high mountains of North Carolina and Virginia. $\mathcal{U}$. August. *v. v.* Flowers small, very pale purple.

26. SALVIA. Gen. pl. 50. Sage.

1. *S. foliis lineari-lanceolatis inferioribus extrorsum serratis cauleque glabris, calyce pubescente brevissime trifido.* *azurea.*

S. azurea. Lam. *encycl.* 6. p. 625.

S. acuminata. Vent. *cels.* p. 50.

S. angustifolia. Mich. *fl. amer.* 1. p. 15.

S. mexicana. Walt. *fl. car.* p. 65.

Icon. Vent. *cels.* p. 50.

- β *Lam. encycl.* 6. p. 625. *elata.*

In open sandy situations of Carolina and Georgia. $\mathcal{U}$. July—Sept. *v. v.* Flowers beautiful blue, sometimes white.

2. *S. foliis cordatis acutis tomentosis serratis, corollis calyce duplo longioribus angustioribus.* Willd. *sp. pl.* 1. p. 141. *coccinea.*

Icon. Murr. in *com. gæst.* 1778. p. 86. t. 1.

On the banks of rivers in Florida. $\frac{1}{2}$. $\mathcal{U}$. July—Sept. *v. v.* Flowers scarlet.

3. *S. foliis lanceolatis serratis, floribus in racemis terminalibus oppositis, corollis calyce trifido subæquantibus, caule brachiato-ramosissimo.* *trichostemoides.*

In open plains of the Missouri river. *M. Lewis.* ☉. *v. s. in Herb. Lewis.* Flowers small, sky-blue.

Caulis erectus ramosissimus: ramuli tetragoni 4-sulcati. Folia opposita, brevi-petiolata. Flores oppositi, in racemis foliosis. Bracteæ vel folia floralia lineares, longitudine pedicellorum. Cal. tubuloso-campanulatus,

striatus, hispidus. *Lab.* superius subrotundum, integrum: inferius 2-fidum: laciniis oblongis, acutis. *Corollæ* labium superius subrotundum, concavum: inferius 3-lobum, laciniis lateralibus brevissimis: intermedia major, dilatata, undulatum-crenata. *Stylus* corollæ duplo longior. *Sem.* 3-gona, glabra, venosa. *Habitus* *Trichostemmae dichotomæ*.

- urticifolia.* 4. *S. villosa-viscosa*, foliis ovatis oblongis dentatis, per petiolum decurrentibus. *Vahl. enum. pl. 1. p. 261. Willd. sp. pl. 1. p. 131.*
Icon. Moris. hist. 3. s. 11. t. 13. f. 31.
 In the mountains of Virginia and Carolina. $\mathcal{U}$. July, Aug. *v. v.* Flowers blue, viscous.
- lyrata.* 5. *S. foliis radicalibus lyratis dentatis, corollarum galea brevissima, caule subaphyllo retrorsum piloso.* *Vahl. enum. pl. 1. p. 257. Willd. sp. pl. 1. p. 128.*
Icon. Moris. hist. 3. s. 11. t. 13. f. 27.
- obovata.* β foliis obovatis repando-dentatis.
Icon. Dill. elth. 219. t. 175. f. 216.
 In meadows from Canada to Carolina. $\mathcal{U}$. May. *v. v.* Flowers blue.
 A number of varieties are comprehended under this species, which probably may prove to be distinct species. In the Banksian Museum, among the plants of Gronovius, is one of those under the name of *S. verbenaca*.

27. COLLINSONIA. *Gen. pl. 51.* Horse-weed.

- canadensis.* 1. *C. foliis lato-cordato-ovatis, glabris, calycis dentibus brevi-subulatis, panicula terminalis composita.*
C. canadensis. Willd. sp. pl. 1. p. 152.
Icon. Linn. hort. cliff. 14. t. 5.
- cordata.* β foliis lato-cordatis, superioribus integerrimis.
- ovata.* γ foliis ovatis basi attenuatis omnibus serratis.
 In shady woods, rocky rich soil from Canada to Carolina. $\mathcal{U}$. July—Sept. *v. v.*; *var. \beta v. s. in Herb. Lambert.* Flowers yellow, large.
- scabra.* 2. *C. foliis minoribus ovatis sub-cordatis pilosiusculis, calycis dentibus brevi-subulatis, panicula terminalis simpliciuscula, caule piloso scabro.*
C. scabriuscula. Ait. kew. ed. 2. 1. p. 66.
C. præcox. Walt. fl. car. p. 65.
 In Carolina and Florida. $\mathcal{U}$. July—Sept. *v. s. in Musea Banks.* Flowers small, reddish-yellow.

In the collection of Mr. Lyons is a specimen, nearly allied to the present one, with larger flowers and four stamina.

3. *C. foliis oblongo-ovalibus utrinque subacutis glabris, petiolis longissimis, calycis dentibus brevissimis, panicula terminalis simplex nudiuscula, caule glabro.*

ovalis.

In South Carolina. *Fraser. 4. Aug. v. s. in Herb. Lambert.* Flowers very small, yellow.

4. *C. foliis subrhombéo-ovalibus utrinque acutis glabris, calycis dentibus setaceis tubo longioribus, panicula composita foliosa, caule ramoso subvillosa.*

tuberosa.

C. tuberosa. Mich. fl. amer. 1. p. 17.

C. serotina. Walt. fl. car. p. 65.

In shady wet woods of Carolina. *4. Sept.* Flowers small, yellow?

5. *C. foliis ovatis cordatis rugosis glabriusculis, nervis subtus pubescentibus, calycis dentibus linearibus tubum subæquantibus, panicula composita foliosa pubescente, floribus tetrandris, caule ramoso pubescente.*

anisata.

Icon. *Bot. mag. t. 1213.*

In the mountains of Georgia. *Lyon. 4. July, Aug. v. v.* Flowers large, pale yellow.

28. CIRCÆA. *Gen. pl. 31.* Enchanter's nightshade.

1. *C. caule erecto, foliis ovatis denticulatis opacis glabriusculis. Vahl. enum. pl. 1. p. 301.*

lutetiana : canadensis.

Icon. *Engl. bot. 1056?*

In shady woods from Canada to Carolina. *4. June, July. v. v.* Flowers small, reddish white.

2. *C. caule adscendente, foliis cordatis dentatis nitidis, calyce membranaceo. Vahl. enum. pl. 1. p. 301.*

alpina.

Icon. *Engl. bot. 1057.*

In high mountain woods, on rotten trees and rocks, from Canada to Carolina. *4. July, Aug. v. v.* Smaller, very smooth; flowers reddish-white.

29. CERATIOLA. *Mich. fl. amer. 2. p. 221.*

1. *Ceratiola. Willd. sp. pl. 4. p. 712. Mich. l. c. p. 222.*

ericoides.

In gravelly dry soil of Georgia and Florida; in great plenty on the Islands in the mouth of St. Mary's River. *2. — v. v. s. fl.; v. s. c. fl. in Herb. Fraser.* Leaves verticillate; flowers very small; resembles a Heath very much.

30. BORYA. *Willd. sp. pl. 4. p. 711.*

- porulosa.* 1. B. foliis oblongo-lanceolatis obtusis sessilibus coriaceis, margine revolutis subtus punctatis. *Willd. l. c.*
Adelia porulosa. *Mich. fl. amer. 2. p. 224.*
On the coast of Georgia and Florida. $\frac{1}{2}$. *v. v.*
- ligustrina.* 2. B. foliis ovato-lanceolatis acutis subsessilibus submembranaceis. *Willd. l. c.*
Adelia ligustrina. *Mich. l. c.*
In woods on river-sides in the Illinois country. $\frac{1}{2}$.
July, Aug. *v. s. in Herb. Lyon.*
- acuminata.* 3. B. foliis ovato-lanceolatis utrinque attenuatis petiolatis membranaceis serrulatis. *Willd. l. c.*
Adelia acuminata. *Mich. l. c. p. 225.*
Icon. *Mich. l. c. t. 48.*
On banks of rivers in Carolina and Georgia. $\frac{1}{2}$. *v. s. in Herb. Lyon.*

31. LEMNA. *Gen. pl. 1400.* Duck-weed.

- minor.* 1. L. foliis ellipticis utrinque planis basi cohærentibus, radicibus solitariis. *Willd. sp. pl. 4. p. 195.*
Icon. *Engl. bot. t. 1095.*
In ditches and stagnant waters, common. ☉. June, July. *v. v.* Floating; flowers exceeding small.
- gibba.* 2. L. foliis ellipticis subtus bullato-convexis basi cohærentibus, radicibus solitariis. *Willd. l. c.*
Icon. *Engl. bot. t. 1233.*
In similar situations, rare. ☉. June, July. *v. v. c. fl.*
Observed near Liverpool in the western part of New York State.
- polyrhiza.* 3. L. foliis ellipticis planis basi cohærentibus, radicibus fasciculatis. *Willd. sp. pl. 4. p. 195.*
Icon. *Vail. par. t. 20. f. 2.*
Common in ditches, &c. ☉. July, Aug. *v. v. s. fl.*

III. TRIANDRIA.

I. MONOGYNIA.

* *Flores superi, completi.*

32. VALERIANA. *Cor.* 1-petala, sæpe calcarata. *Sem.* calyce corticatum, coronatum.
33. FEDIA. *Cal.* 3-4-dentatus. *Cor.* 5-fida. *Caps.* coronata, 3-locularis : loculamento 1. fertili.

** *Flores superi, incompleti.*

34. TRIPTERELLA. *Cor.* 6-fida : laciniis alternis minutis ; tubo basi ventricoso.
35. IXIA. *Cor.* 6-partita, patens, æqualis tubo recto.
36. IRIS. *Cor.* 6-partita : petalis alternis reflexis, alternis conniventibus. *Stigm.* 3. petaliformia.
37. DILATRIS. *Cor.* 6-petaloidea, hirsuta. *Stigm.* 3-fidum.
38. SISYRINCHIUM. *Spatha.* *Petala* 6. plana. *Fil.* connata.

*** *Flores inferi.*

39. BOERHAVIA. *Cal.* tubulosus. *Cor.* 1-petala. *Sem.* 1.
40. COMMELINA. *Cal.* 3-phyllus. *Cor.* 3-petala. *Nectar.* staminiforme. *Caps.* 3-locularis.
41. SYENA. *Cal.* 3-phyllus. *Cor.* 3-petala. *Caps.* 1-locularis, 3-valvis.
42. HETERANTHERA. *Spatha* 1-flora. *Cor.* tubulosa : limbo 6-partito : laciniis subæqualibus. *Stigm.* tubulosum.
43. SERPICULA. *Spatha* 1-flora. *Cor.* tubulosa : limbo 6-partito : laciniis æqualibus. *Stigm.* 3. ligulata.
44. XYRIS. *Cal.* cartilagineo-glumaceus, 3-valvis. *Cor.* 3-petala. *Caps.* 1-locularis, 3-valvis.

**** *Flores glumacei.*

45. SPARGANIUM. *Amentum* subrotundum. *Cal.* 3-phyllus. *Cor.* O. *Stigm.* 2-fidum. *Drupa* 1-sperma. *Monoicum.*
46. TYPHA. *Amentum* cylindricum. *Cal.* obsoletus. *Sem.* 1. pedicellatum basi papposum. *Monoicum.*
47. CAREX. *Amentum* imbricatum. *Cal.* squama. *Stigm.* 2-3. *Semen* tunicatum, 3-quetrum. *Monoicum.*
48. SCLERIA. *Cal.* gluma 2-6-valvis. *Stigm.* 1-3. *Nux* colorata subglobosa. *Monoicum.*
49. ZEA. *Cal.* gluma 2-flora, 2-valvis. *Spadix* simplex, cylindricus: gluma 2-valvis, 1-flora. *Sem.* subrotundum. *Monoicum.*
50. KYLLINGIA. *Flores* distincti, in spicam subimbricati. *Cal.* 2-valvis, 1-florus. *Cor.* 2-valvis, calyce major. *Stylus* bifidus.
51. MAPANIA. *Flores* capitati. *Cal.* 6-valvis. *Cor.* O. *Sem.* 1.
52. DICHROMENA. *Cal.* squamæ in spicam undique imbricatæ, inferiores vacuæ. *Cor.* O. *Styl.* basi persistens. *Setæ* O.
53. SCHÆNUS. *Cal.* squamæ in spicam fasciculatæ, inferiores vacuæ. *Cor.* O. *Styl.* deciduus.
54. RYNCHOSPORA. *Cal.* squamæ in spicam fasciculatæ, inferiores vacuæ. *Cor.* O. *Styl.* basi persistens. *Setæ* basi seminis.
55. FIMBRISTYLIS. *Cal.* squamæ in spicam undique imbricatæ. *Cor.* O. *Stylus* basi bulbosus, ciliatus, deciduus.
56. CYPERUS. *Cal.* squamæ in spicam distiche imbricatæ. *Cor.* O. *Styl.* deciduus.
57. DULICHIMUM. *Cal.* squamæ in spicam distiche imbricatæ: spiculis racemosis, ex axillis foliorum. *Cor.* O. *Stylus* longissimus, 2-fidus.
58. SCIRPUS. *Cal.* squamæ in spicam undique imbricatæ. *Cor.* O. *Styl.* filiformis, imberbis, deciduus. *Sem.* 1. nudum s. setulis cinctum.
59. TRICHOPHORUM. *Cal.* squamæ in spicam undique imbricatæ. *Cor.* O. *Styl.* deciduus. *Sem.* setis (6-9) longissimis calyculatum.
60. ERIOPHORUM. *Cal.* squamæ in spicam undique imbricatæ. *Cor.* O. *Sem.* lana longissima calyculatum.
61. VAGINARIA. *Cal.* squamæ in spicam undique im-

bricatae. *Stigm.* 3. *Seminis* involucellum alternatim tripaleaceum et trisetum.

62. FUIRENA. *Cal.* squamæ mucronatæ in spicam undique imbricatæ. *Sem.* involucellum latum, paleæforme, sæpius aristatum.
63. MARISCUS. Flores distincti, in spicam subimbriati. *Cal.* 2-valvis, subtriflorus. *Corollulæ* 1-valves, inferior superiorem amplectens. *Styl.* 3-fidus.
64. MIEGIA. *Cal.* multiflorus, 2-valvis. *Cor.* 2-valvis, mutica. *Appendices* bini, lato-lanceolati. *Stigm.* 3. *Sem.* nudum, maximum.
65. LIMNETIS. *Spica* lateriflora : flosculis subbifariam imbricatis. *Cal.* 2-valvis : valv. altera minore. *Cor.* 2-valv. mutica, compressa, carinata. *Styl.* longus.
66. CENCHRUS. *Involucr.* laciniatum, echinatum, 3-4 florum. *Cal.* 2-valvis, 2-florus. *Cor.* 2-valvis, mutica. *Styl.* 2-fidus.
67. ORYZOPSIS. *Cal.* 2-valvis, 1-florus. *Cor.* 2-valvis : exteriore aristata. *Nectar* 2-phyllum.

II. DIGYNIA.

* *Flores uniflori, vagi.*

68. ZIZANIA. *Cal.* 0. *Cor.* 2-valvis : valva exteriore aristata. *Stam.* 6. *Monoicum.*
69. MUHLENBERGIA. *Cal.* minutissimus, 1-valvis. *Cor.* 2-valvis, basi pilosa : valv. exteriore apice aristata.
70. TRICHODIUM. *Cal.* 2-valvis : valvis subæqualibus acutis. *Cor.* 1-valvis, brevior, mutica. *Stigm.* subsessilia.
71. LEERSIA. *Cal.* 0. *Cor.* 2-valvis, clausa : valv. compressis, muticis.
72. MILIUM. *Cal.* 2-valvis : valvis ventricosus, corolla majoribus, subæqualibus. *Cor.* 2-valv. brevissima. *Stigm.* villosa.
73. AGROSTIS. *Cal.* 2-valvis : valvis acutis corolla brevioribus. *Cor.* 2-valvis.
74. ANTHOXANTHUM. *Cal.* 2-valvis. *Cor.* 2-valvis, acuminata, aristata. *Stam.* 2.
75. PHALARIS. *Cal.* 2-valvis : valvis carinatis, æqualibus. *Cor.* 2-valvis, inclusa, basi pilosa.
76. PHLEUM. *Cal.* 2-valvis, truncatus, mucronatus, sessilis. *Cor.* inclusa.
77. ALOPECURUS. *Cal.* 2-valvis. *Cor.* 1-valvis, aristata. *Spica.*

78. **PANICUM.** *Cal.* 3-valvis : valvula tertia dorsali minima. *Cor.* 2-valvis.
79. **DIGITARIA.** *Cal.* 2-3-valvis, concavus. *Cor.* 2-valvis, oblongo-ovata, teres, mutica. *Nectar.* fissum. *Spicæ* digitatæ : flores gemini.
80. **CYNODON.** *Cal.* 2-valvis, patens, lanceolatus. *Cor.* major, 2-valvis : valv. exteriore maxima ovoidea. *Nectar.* truncatum. *Spicæ* digitatæ : floribus solitariis
81. **PASPALUM.** *Cal.* 2-valvis : valvis subrotundis, figura corollæ. *Flores* unilaterales.
82. **ARISTIDA.** *Cal.* 2-valvis. *Cor.* 1-valvis : aristis tribus terminalibus.
83. **STIPA.** *Cal.* 2-valvis. *Cor.* 2-valvis : valvis involutis truncatis. *Arista* terminalis, basi contorta, longissima.
84. **SACCHARUM.** *Cal.* 2-valvis : valvis basi villis densis involucreta. *Cor.* 2-valvis : valva interiore longe aristata. *Monandra.*
85. **ANDROPOGON.** *Flores* gemini : altero masculo. *Cal.* 2-valvis. *Cor.* 3-valvis : valv. secunda minore aristata, tertia intima minuta. *Recept.* plerumque villosum. *Involucrum* villis fasciculatis.

** *Flores biflori, vagi.*

86. **ATHEROPOGON.** *Cal.* 1-valvis, biflorus. *Cor.* 2-valvis : valvula exteriore 3-aristata. *Polygamum.*
87. **TRisetum.** *Cal.* 2-3-florus, acuminatus, carinatus. *Cor.* aristis 2. terminalibus, 1. dorsali recta nec contorta, *flosc.* glabris.
88. **ANTHISTIRIA.** *Cal.* 4-valvis, 2-4-flora. *Cor.* 2-valvis. *Arista* tortilis e fundo corollæ. *Polygamum.*
89. **AIHA.** *Cal.* 2-valvis. *Cor.* 2-valvis. *Flosculi* absque rudimento tertii.
90. **MELICA.** *Cal.* 2-valvis, coloratus, obtusus. *Cor.* 2-valvis, ventricosa. *Rudimentum* tertii inter flores.
91. **HOLCUS.** *Cal.* 2-valvis. *Cor.* minor : valv. altera aristata. *Nectar.* 2-partitum. *Polygamum.*
92. **SORGHUM.** *Flores* gemini : altero pedicellato, masculo. *Cal.* 2-valvis. *Cor.* 3-valvis : valv. secunda aristata, tertia nectararia villosa connectens. *Polygamum.*

*** *Flores multiflori, vagi.*

93. POA. *Cal.* 2-valvis. *Spicula* ovata mutica : valvulis margine scariosis.
94. BRIZA. *Cal.* 2-valvis. *Spiculæ* distichæ : valvulis ventricosis, cordatis, obtusis : interiore minuta.
95. UNIOLA. *Cal.* multivalvis. *Spiculæ* ancipites ovatæ : valvulis muticis, interiore minore, intra exteriorem recumbente.
96. FESTUCA. *Cal.* 2-valvis. *Spicula* oblonga, teretiuscula : valvulis mucronatis.
97. DACTYLIS. *Cal.* 2-valvis, carinatus : valvula altera longiore. *Cor.* 2-valvis. *Spic.* aggregatæ.
98. BROMUS. *Cal.* 2-valvis. *Spicula* oblonga, disticha. arista infra apicem sæpius bifidum.
99. KOELERIA. *Cal.* 2-valvis, compresso-carinatus. *Cor.* 2-valvis, brevi-aristata : glumis nervosis.
100. AVENA. *Cal.* 2-valvis : arista dorsali, contorta.
101. ARUNDO. *Cal.* 2-valvis, glaber. *Cor.* lana cincta.

**** *Flores spicati : receptaculo subulato.*

102. ELEUSINE. *Spicæ* digitatæ. *Flor.* secundi, mutici. *Cal.* multiflorus. *Cor.* 2-valvis, mutica.
103. CHLORIS. *Spica* digitata, unilateralis. *Cal.* 2-valvis, 2-6-florus : valv. carinatæ muticæ aut aristatæ. *Polygamum.*
104. ROTIBOELLIA. *Rachis* articulata, teretiuscula. *Cal.* ovato-lanceolatus, planus, uni- vel bivalvis. *Cor.* minor, 2-valvis. *Flosc.* alterni in rachi flexuoso. *Polygamum.*
105. TRIPSACUM. *Mas. Cal.* gluma 2-flora, exteriore masculo. *Cor.* gluma membranacea. *Fem. Cal.* gluma 1-flora, involucri tecto monophyllo, sinubus perforato. *Cor.* gluma 2-valvis.
106. ELYMUS. *Cal.* involucriformis 4-phyllus, lateralis, 2-valvis, aggregato ternus multiflorus.
107. HORDEUM. *Cal.* 1-2-florus, hexaphyllus, involucriformis. *Flosc.* terni, intermedio sessili, lateralibus stipitatis. *Cor.* 2-valvis.
108. SECALE. *Cal.* oppositus, 2-valvis, aut multiflorus, solitarius.
109. TRITICUM. *Cal.* 2-valvis, solitarius, multiflorus. *Floribus* obtusiusculis.

III. TRIGYNIA.

110. HOLOSTEUM. *Cor.* 5-petala. *Cal.* 5-phyllus.
Caps. apice dehiscens.
111. POLYCARPON. *Cor.* 5 petala. *Cal.* 5-phyllus.
Caps. 3-valvis.
112. LECHEA. *Cor.* 3-petala. *Cal.* 5-phyllus. *Caps.* 3-cocca.
113. ERIOCAULON. *Cor.* 3-petala. *Cal.* compositus.
Sem. 1. coronatum corolla.
114. MOLLUGO. *Cor.* 0. *Cal.* 5-phyllus. *Caps.* 3-locularis.
115. PROSERPINACA. *Cor.* 0. *Cal.* 3-partitus. *Nut*
3-locularis, infera.

IV. POLYGYNIA.

116. EMPETRUM. *Cal.* 3—5-part. *Cor.* 3-petala. *Styl.* 9.
Bac. 9-sperma.

I. MONOGYNIA.

32. VALERIANA. *Gen. pl.* 60.

- pauciflora.* 1. V. foliis radicalibus pinnatis, caulinis ternatis: foliolis ovalibus acutis serratis, paniculis laxis paucifloris.
Mich. fl. amer. 1. p. 18.
In shady woods on the Allegany mountains: Tennessee. ♀. June, July. *v. v.* Flowers white.

33. FEDIA. *Gært. de fr. et sem.* 2. p. 36.

- radiata.* 1. F. foliis spathulato-oblongis subintegris, fructu pubescente subtetragono apice nudo. *Mich. fl. amer.* 1. p. 18.
Valeriana locusta radiata. *Linn. sp. pl.* 48.
In fields from Pensylvania to Carolina; very plentifully in Virginia. ☉. June, July. *v. v.*

34. TRIPTERELLA. *Mich. fl. amer.* 1. p. 19.

- capitata.* 1. Tripterella. *Mich. l. c.*
Anonymos capitatus. *Walt. fl. car.* 68.

Vogelia capitata. *Gmel. syst. nat.* 2. p. 107.

Icon. *Mich. l. c.* t. 3.

In wet places, borders of ponds, &c. in Lower Carolina.

©. May—July. *v. v.* Stem filiform; flowers white, in a small head.

35. IXIA. *Gen. pl.* 76.

1. *I. foliis lineari-subulatis scapo unifloro multoties brevior.* *Willd. sp. pl.* 1. p. 200.

Icon. *Bartr. it.* 152. t. 3.

Found by Mr. W. Bartram in South Carolina and Georgia. ♀. Flowers bright blue.

cælestina

36. IRIS. *Gen. pl.* 97. Flag.

1. *I. barba cristata, caule brevissimo compresso subunifloro, foliis gladiatis longitudine florum, laciniis corollarum æqualibus.*

I. cristata. *Ait. kew. ed.* 2. 1. p. 117. *Willd. sp. pl.* 1. p. 225.

I. virginiana pumila. *Pluk. alm.* 198. t. 196. f. 6.

Icon. *Bot. mag.* 412. *Ladies' Calamus.*

On the banks of rivers in rocky situations in the mountains of Virginia and Carolina. ♀. May. *v. v.* Flowers blue, handsomely crested with yellow.

The roots of this species when chewed are very remarkable; they at first occasion a pleasant sweet taste, which in a few minutes turns to a burning sensation, by far more pungent than Capsicum. The hunters of Virginia, notwithstanding those properties, use it very frequently to alleviate thirst.

2. *I. imberbis, caule ancipiti multifloro foliis altiore, foliis ensiformibus, stigmatibus petalis interioribus brevioribus, capsulis oblongis: angulis sulcatis.*

I. virginica. *Willd. sp. pl.* 1. p. 232.

I. hexagona. *Walt. fl. car.* 66.

Icon. *Bot. mag.* 703. *Jacq. ic. rar.* 2. t. 223. *Dill. elth.* t. 155. f. 188.

On river sides and near ponds from New York to Florida. ♀. June, July. *v. v.* Flowers beautiful purple, with the bottom of the outside petals yellow.

cristata.

virginica

3. *I. imberbis, caule tereti flexuoso folia æquante, foliis ensiformibus, stigmatibus petalis interioribus æquantibus, capsulis ovatis: angulis obtusis.*

versicolor.

I. versicolor. *Willd. sp. pl.* 1. p. 233.

Icon. *Bot. mag.* 21. *Dill. elth. t.* 155. *f.* 187.

Very common in wet places, and on the banks of ditches from Canada to Carolina. *¶*. June, July. *v. v.* Flowers purple, stigmata white.

- cuprea.* 4. *I. imberbis*, caule tereti flexuoso folia æquante, foliis lato-ensiformibus, stigmatibus linearibus brevibus, petalis omnibus reflexis emarginatis obovatis, interioribus brevioribus, capsulis magnis hexagonis.
On the banks of the Mississippi near New Orleans; discovered by Mr. Enslen, Collector to the Prince Lichtenstein of Austria. *¶*. July. *v. v.* Flowers of a beautiful copper colour, veined with purple.
- tridentata.* 5. *I. imberbis*, caule tereti foliis longiore, foliis ensiformibus, rudimentis petalorum interiorum tridentatis, denticulo medio acuminato, capsulis trigonis.
I. tripetala. *Walt. fl. car.* 66.
On the sea-shore of Lower Carolina. *Walter.* *¶*. Flowers blue, with purple veins.
- verna.* 6. *I. imberbis*, acaulis, uniflora, foliis longissimis gramineis glaucis, tubo longissimo, petalis subæqualibus, capsulis subrotundis ad terram sessilibus.
I. verna. *Willd. sp. pl.* 1. *p.* 235. *excl. syn. Pluk.*
On high mountains of Virginia and Kentucky; plentifully on the Cacapoon mountains near Winchester. *¶*. April, May. *v. v.* Flowers pale blue, striped with purple.
- sibirica.* 7. *I. imberbis*, caule fistuloso tereti foliis altiore subtrifloro, foliis linearibus; capsulis abbreviato-trigonis utrinque obtusis.
I. sibirica. *Willd. sp. pl.* 1. *p.* 237.
Icon. *Bot. mag.* 50. *Jacq. austr.* 1. *t.* 3.
On the banks of the Missouri. *M. Lewis.* *¶*. July. *v. v.*; *v. s. in Herb. Lewis.* Flowers blue.
- prismatica.* 8. *I. imberbis*, caule solido tereti folia æquante, foliis angustissimis longis, capsulis elongato-prismaticis utrinque acutis.
In deep swamps of New Jersey, near Egg harbour. *¶*. July. *v. v.* Flowers pale purple.

37. DILATRIS. *Gen. pl.* 82.

- tinctoria.* 1. *D. petalis lanceolatis extus villosis, panicula corymbosa tomentosa, foliis longis nudis linearibus.*
D. caroliniana. *Lam. illustr.* 1. *p.* 127.

Anonymos tinctoria. *Walt. fl. car.* 68.

Heritiera Gmelini. *Mich fl. amer.* 1. p. 21.

Icon. *Mich. fl. amer* 1. t. 4.

In sandy swamps of New Jersey, and from Carolina to Florida. ♀. June, July. *v. v.* Root red; stem and corymb very tomentose; petals yellow inside.

38. SISYRINCHIUM. *Gen. pl.* 1101.

1. *S. foliis scapisque simplicibus subsetaceis, spatha colorata: valva altera in mucronem longum desinente.* *mucronatum.*

Pers. ench. 2. p. 50. *Mich fl. amer.* 2. p. 33.

In wet meadows of short grass in Pennsylvania and Virginia. ♀. June, July. *v. v.* Flowers beautiful blue, smaller than the following species.

2. *S. scapo simplici alato, spathis inæqualibus flores superantibus.* *Pers. ench.* 2. p. 50 *Cav diss.* 6. p. 345. *anceps.*

S. gramineum. *Lam encycl.* 1. p. 408.

Icon. *Bot. mag.* 464 *Cav. l. c t.* 190. f. 2.

On dry hills and grass plots from Canada to Carolina.

♀. July, Aug. *v. v.* Flowers blue.

39. BOERHAVIA. *Gen. pl.* 13.

1. *B. caule tetragono glabro, internodiis viscosis, floribus corymboso-paniculatis.* *Willd. sp. pl.* 1. p. 19. *erecta.*

Icon. *Pluk. alm. t.* 226. f. 7.

On the sea-coast of Carolina and Florida. ♀. July. *v. v.*; *v. s.* in *Herb. Walter.*

40. COMMELINA. *Gen. pl.* 86.

1. *C. foliis lineari-lanceolatis glabris, vaginis subciliatis, involucris cordatis conduplicatis.* *Vahl. enum. pl.* 2. p. 165. *Mich. fl. amer.* 1. p. 24. *angustifolia.*

In sandy woods of Carolina. ♀. July. *v. v.* Flowers in this as well as all the following species sky-blue.

2. *C. foliis lanceolatis petiolatis cauleque erecto-pilosis conduplicatis, involucris lateralibus terminalibusque sessilibus.* *Vahl. enum. pl.* 2. p. 166. *hirtella.*

C. longifolia. *Mich. fl. amer.* 1. p. 23.

In shady rocky situations in Virginia and Carolina. ♀. July. *v. v.* Stems long, branchy.

3. *C. foliis lanceolatis subpetiolatis supra glabris, vaginis subpubescentibus, caule erecto simplici.* *Vahl. enum. pl.* 2. p. 167. *Willd. sp. pl.* 1. p. 251. *virginica.*

In shady woods from Pennsylvania to Carolina. 24. July, Aug. v. v. Flowers large.

communis.

4. *C. foliis ovato-lanceolatis subsessilibus acutis cauleque repente glabris, involucris cordatis conduplicatis.* *Vahl. enum. pl. 2. p. 170. Willd. sp. pl. 1. p. 249.*

Icon. *Dill. elth. t. 78. f. 89.*

C. caroliniana. *Walt. fl. car. 68.*

In sandy fields in Carolina. *Walter. 24. July. v. s. in Herb. Walter.*

erecta.

5. *C. foliis ovato-lanceolatis scabris, involucris cucullatis turbinatis, caule erecto.* *Vahl. enum. pl. 2. p. 172. Willd. sp. pl. 1. p. 251.*

C. communis. *Walt. fl. car. 68.*

Icon. *Dill. elth. t. 77. f. 88?*

In sandy shady places in Virginia and Carolina. 24. July. v. v. Pet. 2. large.

41. SYENA. *Gen. pl. 88.*

fluviatilis.

1. *Syena.* *Willd. sp. pl. 1. p. 254.*

Mayaca fluviatilis. *Aubl. guj. 1. p. 42.*

Icon. *Aubl. guj. l. c. t. 15. Lam. illustr. 1. t. 36*

In small rivulets of Virginia and Carolina. 24. July. v. v. Flowers white, solitary, small.

42. HETERANTHERA. *Beauvois in act. soc. amer. 4.*

acuta.

1. *H. foliis subrotundo-reniformibus acutis, spathis subtrifloris glabris.* *Vahl. enum. pl. 2. p. 42. Willd. in act. soc. am. h. nat. 3. p. 438.*

Leptanthus reniformis. *Mich. fl. amer. 1. p. 25.*

Icon. *Beauvois in act. soc. amer. 4. p. 173. H. reniformis.*

In small rivulets and ditches, on a clay soil, in Pennsylvania, Virginia, &c. 24. June, July. v. v. Flowers white; leaves floating.

limosa.

2. *H. foliis ovato-oblongis, spathis lanceolatis unifloris.* *Vahl. enum. pl. 2. p. 44.*

Pontederia limosa. *Swartz. fl. ind. occid. 1. p. 611.*

Leptanthus ovalis. *Mich. fl. amer. 1. p. 25.*

Icon. *Mich. l. c. t. 5. f. 1. Sloan. hist. 1. t. 149. f. 1.*

On the banks of rivers and small rivulets in the southwestern parts of the United States. 24. July. v. s. Flowers blue; leaves erect.

graminea.

3. *H. foliis omnibus linearibus.* *Vahl. enum. pl. 2. p. 452.*

Leptanthus gramineus. *Mich. fl. amer. 1. p. 25.*

Commelina dubia. *Jacq. obs. bot. 3. p. 9.*

Anonymos aquatica graminifolia. *Clayt. num.* 814.
 Icon. *Mich. fl. amer.* 1. t. 5. f. 2. *Jacq l. c. t.* 59.
 Floating, in the waters of Pennsylvania, Virginia, &c. $\mathcal{U}$.
 July. *v. v.*; *v. s.* in *Herb. Gronov.* Flowers yellow.

43. SERPICULA. *Gen. pl.* 1413.

1. *S. floribus triandris hermaphroditis, stigmatibus ligulatis reflexis bifidis, foliis ternatis linearibus acutis.* *occidentalis.*
Elodea canadensis. *Mich. fl. amer.* 1. p. 20.
 In stagnant waters, frequent; from Canada to Virginia.
 $\mathcal{U}$. July. *v. v.* Flowers very small and delicate,
 white; leaves when magnified very finely serrulate.
 Michaux describes the leaves to be oblong and obtuse,
 which is only the case in the early part of the season :
 at flowering time they certainly are long, linear, and
 acute.

44. XYRIS. *Gen. pl.* 89.

1. *X. foliis longissime-gramineis scapisque tortuosis, capitulo globoso : squamis subrotundis obtusis.* *indica.*
X. indica. *Willd. sp. pl.* 1. p. 254 ?
 Icon. *Pluk. alm. t.* 416. f. 4 ?
 In overflowed meadows and small ponds : Pennsylvania to
 Virginia. $\mathcal{U}$. June, July. *v. v.* Flowers yellow.
2. *X. foliis lineari-gramineis, scapo ancipiti, capitulo ovato acuto : squamis obtusis.* *caroliniana.*
X. caroliniana. *Lam. illustr.* 1. p. 132. *Walt. fl. car.* 69.
X. Jupicai. *Mich. fl. amer.* 1. p. 23.
 In low grassy fields, in sandy soil, from New Jersey to
 Florida. $\mathcal{U}$. June—Aug. *v. v.* Heads small;
 flowers yellow; it is extremely variable.
3. *X. foliis subulato-gladiatis, scapo tereti, capitulo globoso.* *brevifolia.*
Mich. fl. amer. 1. p. 23.
 In low meadows of Lower Carolina and Georgia. $\mathcal{U}$.
 July. *v. s.* The smallest species; flowers yellow.

45. SPARGANIUM. *Gen. pl.* 1402. Bur-reed.

1. *S. foliis basi triquetris lateribus concavis, pedunculo communi ramoso, stigmate lineari.* *ramosum.*
Smith. brit. 3. p. 961. *Willd. sp. pl.* 4. p. 199.
S. erectum. *Sp. pl.* 1378.
 Icon. *Curt. lond.* 5. t. 66. *Engl. bot.* 744.

In ditches and ponds from Canada to Virginia, rare. $\mathcal{U}$.
July, August. *v. v.* Flowers in round heads, white.

simplex.

2. *S. foliis basi triquetris lateralibus planis, pedunculo communi simplici, stigmatibus linearibus.* *Smith. brit. 3. p. 962. Willd. sp. pl. 4. p. 199.*

S. erectum β . *Sp. pl. 1378.*

Icon. *Curt. lond. 5. t. 67. Engl. bot. 745.*

In similar situations with the former; more frequent.
 $\mathcal{U}$. July, August. *v. v.*

natans.

3. *S. foliis decumbentibus planis, pedunculo communi simplici, stigmatibus ovato brevissimis, capitulo masculino subsolitario.* *Smith. brit. 3. p. 962. Willd. sp. pl. 4. p. 200.*

Icon. *Engl. bot. 273. Fl. dan. 260.*

angustifolium.

- β . *S. foliis planis angustissimis, caulem longissime superantibus, debiliter fluitantibus.* *Mich. fl. amer. 2. p. 189.*

In rivulets of Canada, and very frequent on the outlets of the small lakes of New York. $\mathcal{U}$. Aug. *v. v.*
Floating; heads small.

46. *TYPHA. Gen. pl. 1401. Cat's-tail. Reed-mace.*

latifolia.

1. *T. foliis linearibus planis, spica mascula femineaque approximatim, utraque cylindrica.* *Willd. sp. pl. 4. p. 197.*

Icon. *Bot. mag. 1455. Fl. dan. 645. Coopers-reed.*

In marshes and pools very common. $\mathcal{U}$. July, Aug. *v. v.* Flowers in a long cylindrical spike.

angustifolia.

2. *T. foliis linearibus canaliculatis, spica mascula femineaque remotis, utraque cylindrica.* *Willd. sp. pl. 4. p. 198.*

Icon. *Bot. mag. 1456.*

In similar situations, only more rare. Pennsylvania and Virginia. $\mathcal{U}$. July, Aug. *v. v.*

47. *CAREX. Gen. pl. 1407. Sedge-grass.*

A. Stigmatibus binis.

$\dagger$ *Spicis dioicis.*

scirpoidea.

1. *C. spica solitaria imbricato-cylindrica, capsulis dense pubescentibus, foliis planis.* *Mich. fl. amer. 2. p. 171.*

Near Hudson's Bay. *Mich. \mathcal{U}. +.*

sterilis.

2. *C. spicis subsenis, fructibus ovatis compresso-triquetris acuminatis, apice recurvis bicuspidatis, margine ciliato-serratis.* *Willd. sp. pl. 4. p. 208.*

Icon. *Schk. car. t. Mmm. f. 146.*

In wet meadows; frequent from Canada to Virginia.

4. May. v. v.

†† *Spicis androgynis.*

* *Spica unica apice mascula.*

3. C. spicis in formam ellipticam aggregatis, fructibus ovatis compressis bifidis marginatis superne ciliato-serratis. *Willd. sp. pl. 4. p. 220.*

cephalophora.

C. typhina. *Mich. fl. amer. 2. p. 169.*

Icon. *Schk. car. t. Hhh. f. 133.*

In shady woods: Pennsylvania, Virginia, &c. 4. June. v. v.

** *Spicis pluribus apice masculis.*

4. C. spiculis alternis confertis, superioribus masculis, inferioribus femineis, intermediis apice masculis, capsulis ovatis marginatis bifidis ciliato-serratis, culmo incurvo. *Willd. sp. pl. 4. p. 223.*

arenaria.

Icon. *Schk. car. t. B. Dd. f. 6. Host. gram. 1. t. 49.*

On the sea-coast in loose sands; New York to Virginia.

4. June, July. v. v.

5. C. spiculis oblongis alternis remotiusculis sessilibus, capsulis oblongis acuminatis rostratis bicuspidatis, squamis oblongis mucronatis. *Schk. car. 2. p. 8. Willd. sp. pl. 4. p. 258.*

bromoides.

Icon. *Schk. car. t. Xxx. f. 176.*

In dry fields and woods. 4. May. v. v.

6. C. spiculis subquaternis remotiusculis, fructibus ovatis bidentatis margine glabris reflexo-patentibus, squamis oblongo-lanceolatis. *Schk. car. 2. p. 11.*

retroflexa.

Icon. *Schk. car. t. Kkk. f. 140.*

On dry hills: Pennsylvania, &c. 4. v. v.

7. C. spiculis subquinis oblongis aggregatis, fructibus patentibus ovatis acuminatis bicuspidatis convexo-planis nervosis, culmo triquetro asperrimo. *Willd. sp. pl. 4. p. 233.*

stipata.

Icon. *Schk. car. t. Hhh. f. 132.*

In bogs and swamp meadows: New England to Virginia.

4. June. v. v.

8. C. spiculis ovatis approximatis, fructibus horizontalibus ovatis plano-convexis bidentatis, basi marginatis, margine ciliato-serratis. *Willd. sp. pl. 4. p. 234.*

muricata.

Icon. *Schk. car. t. E. Dd. f. 22.*

In wet woods and meadows : New York, &c. $\mathcal{U}$. May, June. *v. v.*

Muhlenbergii.

9. *C. spiculis subquinis ovatis alternis approximatis, fructibus subrotundo-ovatis marginatis compressis bidentatis ciliato-serratis, squamis mucronatis. Willd. sp. pl. 4. p. 231.*

C. vulpinoidea. Mich. fl. amer. 2. p. 169.

Icon. *Schk. car. t. Yyy. f. 178.*

On dry hills and in barren woods. $\mathcal{U}$. May, June. *v. v.*

multiflora.

10. *C. spicis anguste paniculatis oblongis obtusis, fructibus ovatis acuminatis bicuspidatis, squamis ovatis mucronatis, bracteis foliaceis filiformibus. Willd. sp. pl. 4. p. 243.*

Icon. *Schk. car. t. Lll. f. 144.*

In wet meadows : Pennsylvania, Virginia, &c. $\mathcal{U}$. *v. v.*

sparganoides.

11. *C. spiculis multifloris suboctonis ovatis subapproximatis, fructibus ovatis compressis marginatis bifidis margine ciliato-serratis horizontalibus. Willd. sp. pl. 4. p. 237.*

Icon. *Schk. car. t. Lll. f. 142.*

On the edges of ponds : New England, Pennsylvania, &c. $\mathcal{U}$. May—July. *v. v.*

divulsa.

12. *C. spica basi subramosa, spiculis ovatis approximatis, inferiorioribus remotis, fructibus erectiusculis ovatis planis convexis bidentatis marginatis, margine glabris. Willd. sp. pl. 4. p. 235.*

Icon. *Schk. car. t. Dd. Ww. f. 89.*

In shady boggy places : New York, Virginia, &c. $\mathcal{U}$. June, July. *v. v.*

rosea.

13. *C. spiculis subquaternis remotis, fructibus ovatis acuminatis bidentatis margine ciliato-serratis horizontalibus, squamis ovatis obtusis, bractea foliacea ad basin spiculæ inferioris. Willd. sp. pl. 4. p. 237.*

C. echinata β rosea. Wahlb. act. holm. 1803. p. 147.

Icon. *Schk. car. t. Zzz. f. 179.*

In dry woods : Canada, Pennsylvania, Virginia, &c. $\mathcal{U}$. *v. v.*

paniculata.

14. *C. spicis paniculatis, fructibus ovatis superne marginatis bidentatis margine ciliato-serratis, culmo triquetro. Willd. sp. pl. 4. p. 244.*

Icon. *Schk. car. t. D. f. 20. et var. t. Ttt. f. 163.*

In bog-meadows : Virginia, &c. $\mathcal{U}$. July. *v. v.*

*** *Spicis pluribus apice femineis.*

leporina.

15. *C. spiculis tribus subrotundo-ellipticis alternis congestis,*

fructibus ellipticis compressis acuminatis ore integris.
Willd. sp. pl. 4. p. 229.

C. Lachenalii. Schk. car. 1. p. 51.

Icon. *Schk. car. t. Y. f. 29. Fl. dan. 294.*

In the western parts of New York, Pennsylvania, &c.

¶. June. *v. v.*

16. *C. spiculis subquaternis approximatis ellipticis, fructibus ovatis bidentatis compressis margine ciliato-serratis erectis, squamis ellipticis obtusis. Willd. sp. pl. 4. p. 237.* *scirpoides.*

C. triceps. Mich. fl. amer. 2. p. 170?

Icon. *Schk. car. t. Zxx. f. 180.*

In wet meadows, common. ¶. May—July. *v. v.*

17. *C. spiculis duodenis alternis ellipticis obtusis approximatis, fructibus ovato-lanceolatis marginatis bicuspidatis, bractea foliacea longissima ad basin spicæ ultimæ. Willd. sp. pl. 4. p. 230.* *lagopodioides.*

C. Richardi. Mich. fl. amer. 2. p. 170.

Icon. *Schk. car. t. Yyy. f. 177.*

In swamp meadows, common. ¶. June, July. *v. v.*

18. *C. spiculis subsenis subrotundo-ellipticis alternis subapproximatis inferne masculis, fructibus ovatis marginatis bidentatis ciliato-serratis. Willd. sp. pl. 4. p. 229.* *ovalis.*

C. leporina. Wahlb. act. holm. 1803. p. 145.

Icon. *Schk. car. t. B. f. 8.*

In wet places: New York, &c. ¶. June. *v. v.*

19. *C. spiculis subquinis alternis ellipticis obtusis subapproximatis, fructibus ovato-lanceolatis marginatis bicuspidatis, bracteis oblongis mucronatis. Willd. sp. pl. 4. p. 230.* *scoparia.*

C. viridula. Mich. fl. amer. 2. p. 170?

Icon. *Schk. car. t. Xxx. f. 175.*

In wet and sometimes even very dry places, common.

¶. May—July. *v. v.*

20. *C. spiculis subsenis alternis approximatis cylindræis, fructibus ovatis plano-convexis acutiusculis ore integris erectis, squama ovata acuta longioribus. Willd. sp. pl. 4. p. 241.* *curta.*

C. canescens. Wahlb. act. holm. 1803. p. 148.

Icon. *Schk. car. t. C. f. 13.*

In wet woods: New York, &c. ¶. June. *v. v.*

21. *C. spiculis alternis remotis, bracteis foliaceis longissimis suffultis, fructibus ovatis acuminatis bifidis compressiusculis. Willd. sp. pl. 4. p. 239.* *remota.*

Icon. *Schk. car. t. E. t.* 23.

In shady woods: Pensylvania mountains, &c. *Ÿ.* June.
v. v.

- festucacea.* 22. *C. spiculis* suboctonis subapproximatis alternis cylindraceis, fructiferis clavatis, fructibus subrotundo-ovatis rostratis bidentatis margine ciliato-serratis, squama lanceolata mucronata majoribus. *Willd. sp. pl.* 4. p. 242.

Icon. *Schk. car. t. Ww. f.* 173.

On dry hills, frequent. *Ÿ.* May, June. *v. v.*

††† *Spicis sexu distinctis.*

- * *Spica mascula solitaria, reliquis femineis ex parte androgynis.*

- saxatilis.* 23. *C. spicis* femineis geminis inferiore pedunculata oblongis, fructibus ellipticis obtusis squamam oblongam obtusam æquantibus, bracteis oblongis amplexicaulibus apice subfoliaceis, culmo glabro. *Willd. sp. pl.* 4. p. 272.

Icon. *Schk. car. t. I. et Tt. f.* 40.

In hemlock woods of Vermont and New Hampshire.
Ÿ. June. *v. v.*

- cæspitosa.* 24. *C. spicis* femineis cylindraceis obtusis subternis distantibus infima brevissime exerte pedunculatis, fructibus ovatis obtusis ore pertusis, squama oblonga obtusa majoribus, foliis patulis. *Willd. sp. pl.* 4. p. 287.

C. polyandra. Schk. car. 1. p. 59. t. Dd. f. 90.

Icon. *Schk. car. t. Aa. et Bb. f.* 85.

In bog-meadows, very common. *Ÿ.* May, June. *v. v.*

- crinita.* 25. *C. spicis* masculis geminis, femineis quaternis distantibus pedunculatis pendulis cylindraceis, fructibus subrotundo-ellipticis ventricosus brevissime rostellatis ore integris squama oblonga arista brevioribus. *Willd. sp. pl.* 4. p. 300. *Lam. encycl.* 3. p. 379.

Icon. *Schk. car. t. Eee. f.* 125. et *t. Ttt. f.* 164.

- paleacea.* β. *C. spicis* cylindraceis, masculis pluribus, pedunculis longis reclinatis, bracteis foliaceis distantibus, squamis cuspidate longa serrata terminatis, capsulis suborbiculatis, ore emarginato, culmo laxo. *Wahlb. act. holm.* 1803. p. 164.

In wet woods, common. *Ÿ.* June, July. *v. v.*

- acuta.* 26. *C. spicis* masculis binis ternisve, femineis subquaternis subpedunculatis subnutantibus cylindraceis remotis, fructibus oblongis brevissime rostellatis, ore integro

pertuso, squamam oblongam acutam subæquantibus.

Willd. sp. pl. 4. p. 304.

Icon. *Schk. car. t. Ee. et Ff. f. 92. Host. gram. 1. t. 95.*

In swamps, very common. 24. June, July. v. v.

B. Stigmatibus tribus.

† *Spicis androgynis, apice masculis.*

27. *C. spica simplici ovata, fructibus ovato-subglobosis ore integris squama oblonga longioribus, foliis lanceolatis undulatis crenulatis, scapo basi vaginato.* *Fraseri.*

Icon. *C. Fraseri. Bot. mag. 1391. Bot. rep. 639.*

On the mountains of North Carolina. *Fraser. 24. April. v. v.*

28. *C. spica simplici, fructibus alternis oblongis tereti-triquetris scabris acuminatis, squamis ovatis acuminatis, infima apice foliacea.* *Willd. sp. pl. 4. p. 211.*

Icon. *Schk. car. t. Mmm. f. 145.*

In barren wet soil, common. 24. May, June. v. v.

29. *C. spica simplici, fructibus oblongo-lanceolatis compresso-triquetris obtusis emarginatis, squamis oblongis obtusis mucronatis.* *Willd. sp. pl. 4. p. 213.* *polytrichoides.*

C. leptalea. Wahlb. act. holm. 1803. p. 139.

C. microstachya. Mich. fl. amer. 2. p. 169.

Icon. *Schk. car. t. lli. f. 138.*

In low wet places: Pennsylvania, &c. 24. June. v. v.

30. *C. spicis subquaternis pedunculatis ramosissimis, fructibus obovatis triquetris obtusis, squamis oblongis obtusis mucronatis.* *Willd. sp. pl. 4. p. 222.* *pedunculata.*

Icon. *Schk. car. t. Ggg. f. 131.*

On dry hills: New England, New York, Pennsylvania, &c. 24. May—July. v. v.

31. *C. spicis subquinis pedunculatis ovatis pendulis, fructibus obovatis utrinque acutis, squamis ovatis acutis capsulam æquantibus.* *ovata.*

C. ovata. Rudge in linn. trans. 7. p. 96.

Icon. *Rudge l. c. t. 9. f. 1.*

In Canada and Newfoundland. 24. +.

†† *Spicis terminalibus masculis, reliquis androgynis.*

32. *C. spica androgyna lineari-pedunculata inferne mascula, femineis subapproximatis binis subpedunculatis linea-* *virescens.*

ribus, fructibus globoso-triquetris obtusis pubescentibus. *Willd. sp. pl.* 4. p. 251.

Icon. *Schk. car. t. Mmm. f.* 147.

On barren dry soil, common. 24. May. v. v.

hirsuta.

33. *C. spica* androgyna oblonga obovata inferne mascula, femineis remotiusculis subternis subsessilibus oblongis, fructibus ovatis obtusissimis obtuse triquetris, foliis vaginisque hirsutis. *Willd. sp. pl.* 4. p. 252.

Icon. *Schk. car. t. Ww. f.* 172.

On dry hills, frequent. 24. May, June. v. v.

Buxbaumii.

34. *C. spica* androgyna pedunculata obovata inferne mascula, femineis subternis remotis subpedunculatis, fructibus ellipticis triquetris obtusis obsolete bidentatis squamam oblongam mucronatam subæquantibus. *Willd. sp. pl.* 4. p. 252.

C. polygama. *Schk.*

Icon. *Schk. car. t. X. Gg. f.* 76.

In swamps and wet woods: New York, Pennsylvania, &c. 24. July, Aug. v. v.

trichocarpa.

35. *C. spicis* androgynis tribus, femineis binis pedunculatis erectis cylindraceis remotis: fructibus ovatis acuminatis bicuspidatis pilosis squama ovato-lanceolata aristata longioribus. *Schk. car.* 2. p. 47.

C. lanuginosa. *Mich. fl. amer.* 2. p. 175.

Icon. *Schk. car. t. Nnn. f.* 148.

In woods and wet fields: New England, Pennsylvania, &c. 24. June. v. v.

††† *Spicis sexu distinctis.*

* *Spica mascula solitaria, femineis sessilibus seu inclusopedunculatis.*

varia.

36. *C. spicis* femineis subternis subapproximatis sessilibus subglobosis, fructibus subgloboso-triquetris rostratis bidentatis pubescentibus squama oblonga brevioribus, culmo erecto. *Willd. sp. pl.* 4. p. 259.

Icon. *Schk. car. t. Uuu. f.* 167.

On dry hills, frequent. 24. May, June. v. v.

subulata.

37. *C. spicis* femineis subquaternis remotissimis sessilibus, mascula sessilis, fructibus subulatis divaricatis reflexis, culmo tenui, foliis planis. *Mich. fl. amer.* 2. p. 173.

In Canada. *Michaux.* +.

marginata.

38. *C. spicis* femineis subgeminis approximatis subglobosis subsessilibus, fructibus globosis tomentosis bidentatis

squama oblongo-ovata majoribus, foliis radicalibus
annotinis culmo longioribus. *Willd. sp. pl.* 4. p. 261.

Icon. *Schk. car. t. Lll. f.* 143.

On dry hills and rocks, common. 24. April, May. v. v.

39. *C. spica* mascula lanceolata, femineis geminis ovatis *vestita.*
sessilibus approximatis, fructibus ovatis rostratis ore
obliquis pubescentibus squamam ovatam acutam sub-
æquantibus. *Willd. sp. pl.* 4. p. 263.

Icon. *Schk. car. t. Bbbb. f.* 182.

In wet meadows: Pennsylvania, &c. 24. June. v. v.

40. *C. spicis* femineis tribus incluso-pedunculatis ovatis sub- *tentaculata.*
approximatis, bracteis longissimis foliaceis, fructibus
ovatis ventricosus nervosis longissime rostratis ore bi-
dentatis squama lanceolata mucronata longioribus.
Willd. sp. pl. 4. p. 266.

Icon. *Schk. car. t. Ggg. f.* 130.

β. Icon. *Schk. car. t. Hhh. f.* 134.

rostrata.

In swamps and wet woods, common. 24. June, July.
v. v.

41. *C. spica* feminea plerumque solitaria sessili-ovata, brac- *miliaris.*
tea setacea, fructibus globosis glabris. *Mich. fl.*
amer. 2. p. 174.

In bogs and shady woods: Canada, Vermont, &c. 24.
July. v. v.

42. *C. spicis* femineis tribus incluse pedunculatis oblongis *lupulina.*
approximatis, bracteis longissimis foliaceis, fructibus
ovatis ventricosus nervosis longissime conico-rostratis
ore bicuspidatis, squama ovata mucronata multoties
longioribus. *Willd. sp. pl.* 4. p. 266.

Icon. *Schk. car. t. Ddd. f.* 123. et t. Iii. f. 194.

In swamps and woods, frequent. 24. June—Aug. v. v.

43. *C. spicis* femineis subternis subapproximatis ellipticis *flava.*
incluse pedunculatis, fructibus ovatis reflexis rostratis,
rostro curvato bidentato, squama ovato-lanceolata lon-
gioribus. *Willd. sp. pl.* 4. p. 268.

C. Oederi. *Schk. car.* 1. p. 67.

Icon. *Schk. car. t. H. f.* 36. et t. F. f. 26. *Host. gram.*
1. t. 65.

In wet fields and meadows, frequent. 24. June. v. v.

44. *C. spicis* femineis binis tri- s. quadrifloris inferiore pe- *oligocarpa.*
dunculata, fructibus subrotundo-triquetris obovatis
rostellatis ore integris squama oblonga mucronata lon-
gioribus. *Willd. sp. pl.* 4. p. 279.

C. paupercula. *Mich. fl. amer.* 2. p. 172?

Icon. *Schk. car. t. Vvv. f.* 170.

In wet places: New York, Pennsylvania, &c. 24. May.
v. v.

- folliculata.* 45. *C. spica* feminea subsolitaria subsexflora subexerta pedunculata, fructibus ovatis ventricosus nervosis rostratis ore bipartitis squama ovata longioribus. *Willd. sp. pl.* 4. p. 281.

Icon. *Schk. car. t. N. f.* 52.

- major.* β. *C. intumescens.* *Rudge in linn. trans.* 7. p. 97. t. 9. f. 3.

In wet woods, common. 24. June, July. v. v.

- pubescens.* 46. *C. spicis* femineis quaternis sessilibus infima exerte pedunculata, fructibus ovato-triquetris pubescentibus rostratis bidentatis, squama oblonga mucronata longioribus, culmo foliis pubescentibus. *Willd. sp. pl.* 4. p. 281.

Icon. *Schk. car. t. Eee. f.* 126.

In shady woods: Pennsylvania, Virginia, &c. 24. May.
v. v.

** *Spica mascula solitaria, femineis longe-pedunculatis, vaginis brevioribus.*

- plantaginea.* 47. *C. spicis* pedunculatis femineis quaternis distantibus, fructibus ellipticis triquetris pedicellatis glabris squama ovata cuspidata brevioribus, bracteis vaginatis apice subfoliaceis, radicalibus lanceolatis nervosis. *Willd. sp. pl.* 4. p. 257.

C. latifolia. *Wahlb. act. holm.* 1803. p. 156.

Icon. *Schk. car. t. U. f.* 70. et t. Kkkk. f. 195.

In dry woods, very common. 24. May, June. v. v.

- anceps.* 48. *C. spicis* femineis tribus remotis, inferioribus pedunculatis, fructibus ovatis nervosis ore membranaceis squama oblonga mucronata longioribus. *Willd. sp. pl.* 4. p. 278.

C. striatula. *Mich. fl. amer.* 2. p. 173.

Icon. *Schk. car. t. Fff. f.* 128.

In wet fields on the sides of ditches, from New Jersey to Carolina. 24. June. v. v.

- granularis.* 49. *C. spicis* femineis tribus remotis, binis inferioribus pedunculatis, fructibus globoso-ovatis nervosis ventricosus brevissime rostellatis ore obsolete emarginato squama ovato-lanceolata longioribus. *Willd. sp. pl.* 4. p. 279.

- C. lenticularis.* *Mich. fl. amer. 2. p. 172.*
 Icon. *Schk. car. t. Vvv. f. 169.*
 In barren meadows and woods, from Canada to Carolina.
 2. May—July. *v. v.*
50. *C. spicis femineis binis remotis, suprema subsessili, infima longe pedunculata, fructibus oblongo-conicis obtusis squamam aristam æquantibus.* *Willd. sp. pl. 4. p. 280.* *conoidca.*
 Icon. *Schk. car. t. Vvv. f. 168.*
 In dry woods, common. 2. June. *v. v.*
51. *C. spicis femineis binis remotis, suprema subsessili, infima longe pedunculata, fructibus obovatis apice recurvis ore integris squamam obtuso-ovatum longioribus.* *Schk. car. 2. p. 68.* *tetânica.*
 Icon. *Schk. car. t. Ggg. f. 100. et t. Oooo. f. 207.*
 In woods and dry meadows, frequent. 2. May, June. *v. v.*
52. *E. spicis femineis tribus 6—8-floris distantibus, infima remote pedunculata, fructibus oblongis ventricosius obtusis squama ovata mucronata majoribus.* *Willd. sp. pl. 4. p. 281.* *laxiflora.*
C. paupercula. *Mich. fl. amer. 2. p. 172.*
 Icon. *Schk. car. t. Kkk. f. 141.*
 On dry grassy hills, common. 2. April, May. *v. v.*
53. *C. spica mascula solitaria, squamis ovato-oblongis submucronatis, femineis cylindræis binis, infima pedunculata, fructibus ovatis multinerviis rostratis ore bifidis squama oblonga aristata longioribus.* *Willd. sp. pl. 4. p. 282.* *hystericina.*
C. erinacea. *Muhl. in litt. . . .*
 Icon. *Schk. car. t. Fff. f. 127.*
 In swamps and boggy woods, frequent. 2. June, July. *v. v.*
54. *C. spicis femineis tribus oblongis distantibus, suprema sessili, reliquis pedunculatis, fructibus ovatis acuminatis bicuspidatis squamam ovatam acuminatam subæquantibus.* *Willd. sp. pl. 4. p. 271.* *distans.*
 Icon. *Schk. car. t. T. et Yy. f. 63.*
 In wet meadows, frequent. 2. June, July. *v. v.*
55. *C. spicis femineis subquaternis remotis filiformibus pedunculis cernuis, fructibus distantibus alternis oblongis rostratis bifidis squama ovata mucronata duplo longioribus.* *Willd. sp. pl. 4. p. 297.* *flexuosa.*
C. debilis. *Mich. fl. amer. 2. p. 172.*

C. tenuis. *Rudge in linn. trans. t. 7. p. 97.*

Icon. *Schk. car. t. Ddd. et Aaaa. f. 124.*

In sandy wet meadows: Canada to Carolina. $\mathcal{A}$. June.
v. v.

- digitalis.* 56. *C. spicis femineis subternis remotis filiformibus pedunculatis cernuis, fructibus ellipticis obtusis squama oblongo-lanceolata longioribus.* *Willd. sp. pl. 4. p. 298.*
In Pennsylvania. *Muhl. \mathcal{A}. +.*

*** *Spica mascula solitaria, femineis pedunculatis, vagince subnullæ.*

- umbellata.* 57. *C. spicis femineis tribus pedunculatis octofloris ovatis verticillatis, fructibus ovatis pubescentibus rostratis ore integris squamam ovato-lanceolatam æquantibus.* *Willd. sp. pl. 4. p. 290.*

Icon. *Schk. car. t. Ww. f. 171.*

On dry sunny hills: New York to Virginia. $\mathcal{A}$. May.
v. v.

- miliacea.* 58. *C. spicis femineis tribus filiformibus, summa subsessili, reliquis pedunculatis, fructibus ovatis triquetris breve rostratis ore integris squama oblonga emarginata aristata longioribus.* *Willd. sp. pl. 4. p. 290.*

Icon. *Schk. car. t. Ooo. f. 151.*

In wet meadows: Canada to Carolina. $\mathcal{A}$. July. *v. v.*

- Pseudo-Cyperus.* 59. *C. spicis femineis quaternis geminatis pedunculatis pendulis cylindricis, fructibus ovato-lanceolatis bicuspidatis reflexis squamam setaceam æquantibus.* *Willd. sp. pl. 4. p. 295.*

Icon. *Schk. car. t. Mm. f. 102.*

In ditches and swamps, frequent. $\mathcal{A}$. June, July. *v. v.*

**** *Spicis masculis pluribus.*

- recurva.* 60. *C. spicis masculis geminis, femineis cylindricis subternatis pedunculatis pendulis, fructibus ellipticis obtusis sæpe scabriusculis squamam ovato-cuspidatam æquantibus.* *Willd. sp. pl. 4. p. 298.*

C. flacca. *Schk. car. 1. p. 117.*

C. glauca. *Scop.*

Icon. *Schk. car. t. O. P. f. 57. et t. Zz. f. 113.*

In bogs and wet woods, common. $\mathcal{A}$. June. *v. v.*

- pellita.* 61. *C. spicis masculis geminis, femineis geminis cylindræis erectis remotis, superiore sessili, fructibus ovatis bifidis pilosis squama oblonga aristata brevioribus.* *Willd. sp. pl. 4. p. 302.*

C. striata. Mich. fl. amer. 2. p. 174?

Icon. Schk. car. t. Nnn. f. 149 et 150.

In wet meadows and woods, frequent. 24. June, July.
v. v.

62. *C. spicis masculis quaternis, femineis binis erectis cylindraceis pedunculatis, fructibus oblongis multinerviis rostratis bifurcatis squama oblonga mucronata longioribus.* Willd. sp. pl. 4. p. 306.

Icon. Schk. car. t. Ooo. f. 152.

β. Rudge in linn. trans. t. 7. p. 99. t. 10. f. 2.

In deep swamps and on the edges of ponds: Canada to Carolina. 24. June, July. v. v.

lacustris.

gigantea.

63. *C. spicis masculis tribus, femineis subgeminis pedunculatis cylindraceis, fructibus oblongis inflatis rostratis bicuspidatis squama lanceolata majoribus, culmo acute triquetro.* Willd. sp. pl. 4. p. 307.

Icon. Schk. car. t. Ss. f. 106.

In swamps and wet meadows, common. 24. May—July.
v. v.

vesicaria.

64. *C. spicis masculis tribus, femineis binis cylindraceis pedunculatis erectiusculis, fructibus ovato-globosis rostratis bifurcatis, rostris hispidis squama lanceolata majoribus.* Willd. sp. pl. 4. p. 309.

Icon. Schk. car. t. Uuu. f. 106.

In bogs, very common. 24. June. v. v.

bullata.

48. SCLERIA. Gen. pl. 1408.

1. *S. culmo foliisque glabris, paniculis terminalibus et lateralibus paucifloris, nucibus reticulatis.* Willd. sp. pl. 4. p. 314. Mich. fl. amer. 2. p. 167.

Carex lithosperma. Walt. fl. car. 227.

In sandy barren fields: New Jersey to Carolina. 24. July, Aug. v. v.

reticularis.

2. *S. culmo simplicissimo triquetro foliisque glabris, spica glomerata nuda, glomerulis alternis distantibus, glumis glabris, nucibus globosis mucronatis transversim rugoso-verrucosis.* Willd. sp. pl. 4. p. 317.

In wet fields: Virginia, Carolina. Muhlb. 24. June, July. v. v.

verticillata.

3. *S. culmo simplicissimo triquetro foliisque pubescentibus, spica glomerata nuda, glomerulis alternis distantibus, glumis setosis, nucibus globosis mucronatis transversim rugoso-verrucosis.*

interrupta.

sim rugoso-verrucosis. *Willd. sp. pl. 4. p. 317.*
Mich. fl. amer. 2. p. 168.

In wet meadows of Lower Carolina and Florida. $\mathcal{U}$. +.

hirtella.

4. *S. culmo simplicissimo triquetro folisque pubescentibus, spica glomerata nuda, glomerulis alternis distantibus, glumis setosis, nucibus elliptico-globosis mucronatis lævibus nitidis. Willd. sp. pl. 4. p. 318. Mich. fl. amer. 2. p. 168.*

In dry woods on slate rocks: Virginia, Carolina. $\mathcal{U}$.
 June. *v. v.* The smallest species.

ciliata.

5. *S. culmo erecto glabriusculo, foliis ciliatis fasciculo terminali ciliato, nucibus globosis scabriusculis. Willd. sp. pl. 4. p. 318. Mich. fl. amer. 2. p. 167.*

In dry woods: Virginia, Carolina, &c. $\mathcal{U}$. July. *v. v.*

pauciflora.

6. *S. culmo erecto simplici triquetro scabro, foliis anguste linearibus canaliculatis margine scabris, fasciculis paucifloris binis terminalibus unico remotissimo axillari, nucibus globosis acutiusculis transversim rugosis. Willd. sp. pl. 4. p. 318.*

S. oligantha. Mich. fl. amer. 2. p. 167.

In low grassy places in the woods of Carolina. $\mathcal{U}$. +.

triglomerata.

7. *S. culmo erecto simplici triquetro scabro, foliis margine scabris, fasciculis paucifloris terminalibus, glumis ovatis mucronatis scabris, nucibus globosis acutis rugosis. Mich. fl. amer. 2. p. 168.*

In dry swamps and old fields: Pennsylvania to Carolina. $\mathcal{U}$. June, July. *v. v.*

49. ZEA. *Gen. pl. 1403.* Indian Corn.

Mays.

1. *Z. foliis integerrimis. Willd. sp. pl. 4. p. 200.*

Cultivated throughout all America, and sometimes found as it were in a native state. It would take up too much room to mention all the numberless varieties; but one of those brought by M. Lewis, Esq. from the Mandan nation, on the Missouri, deserves particular attention, as it ripens sooner and produces as excellent ears as any sort I know. It would be calculated to cultivate in climates not quite so warm as all the other sorts require.

50. KYLLINGIA. *Gen. pl. 91.*

pumila.

1. *K. capitulo globoso sessili solitario, involucre brevi, cul-*

mo setaceo, flosculis diandris. *Vahl. enum. pl. 2. p. 380. Mich. fl. amer. 1. p. 28.*

In the western parts of South Carolina and Georgia. 24. June. v. v.

2. *K. capitulis subternis sessilibus glomeratis, involucri 3-phyllo, glumis oblongis: valvulis cuneato-lanceolatis, flosculis monandris. Mich. fl. amer. 1. p. 29.* *maculata.*

Scirpus cephalotes. Walt. fl. car. 71.

In inundated places: Carolina, Florida, &c. 24. July. v. s.

51. MAPANIA. *Aubl. fl. gui. 1. p. 47.*

1. *Mapania. Aubl. fl. gui. 1. p. 47. t. 17.* *sylvatica.*

In remote parts of the Cherokee mountains. 24. July. v. s. A beautiful grass, which I found in a collection made by Mr. Kinn of Philadelphia, corresponded in every respect with Aublet's plant.

52. DICHROMENA. *Mich. fl. amer. 1. p. 37.*

1. *D. glabra, involucris basi utrinque coloratis. Vahl. enum. leucocephala. pl. 2. p. 240. Mich. fl. amer. 1. p. 37.*

In wet places in Lower Carolina and Georgia. 24. July. v. s.

2. *D. pilosa, involucris supra basin coloratis. Vahl. enum. ciliata. pl. 2. p. 240.*

Schœnus stellatus. Swartz. fl. ind. occid. 1. p. 102.

Icon. *Sloan. hist. jam. 1. t. 78. f. 1.*

In inundated places of Georgia and Florida. 24. July. v. v.

53. SCHCENUS. *Linn. et Vahl. enum. pl. 2. p. 207.*

1. *S. pedunculis axillaribus terminalibusque subtrifloris, culmo trigono foliisque setaceis. Vahl. enum. pl. 2. p. 219.* *setaceus.*

Icon. *Rottb. gram. t. 21.*

In Carolina. *Vahl. 24. +.*

2. *S. pedunculis axillaribus terminalibusque tristachyis, spicis subglobosis pedicellatis, foliis filiformibus hispidis. Vahl. enum. pl. 2. p. 219.* *hispidulus.*

In Carolina. *Lam. 24. +.*

54. RHYNCHOSPORA. *Vahl. enum. pl. 2. p. 229.*

- sparsa.* 1. R. corymbis diffusis axillaribus compositis, terminalibus decompositis, pedunculis capillaribus, seminibus rostro longioribus. *Vahl. enum. pl. 2. p. 230.*
Schænus sparsus. Mich. fl. amer. 1. p. 35.
Schænus miliaceus. Lam. illustr. 1. p. 137.
 In shady woods: Virginia—Georgia. June. v. v.
- micrantha.* 2. R. corymbis diffusis axillaribus simplicibus, terminalibus compositis, pedunculis capillaribus, culmo foliisque filiformibus glabris. *Vahl. enum. pl. 2. p. 231.*
Schænus rariflorus. Mich. fl. amer. 1. p. 35.
 In Georgia. *Mich. 2. +.*
- laxa.* 3. R. corymbis terminalibus compositis, spicis solitariis, rostellis seminibus longissimo, culmo acutangulo scabro. *Vahl. enum. pl. 2. p. 231.*
Schænus longirostris. Mich. fl. amer. 1. p. 35.
Schænus corniculatus. Lam. illustr. 1. p. 132.
 In wet woods and near ponds in Virginia and Carolina. 2. July. v. v.
- inexpansa.* 4. R. corymbis coarctatis axillaribus simplicibus compositisque, terminalibus decompositis, culmo filiformi. *Vahl. enum. pl. 2. p. 232.*
Schænus inexpansus. Mich. fl. amer. 1. p. 35.
 In Carolina. *Mich. 2. +.*
- fascicularis.* 5. R. spicis corymboso-fasciculatis, foliis linearibus latitudine culmi. *Vahl. enum. pl. 2. p. 234.*
Schænus fascicularis. Mich. fl. amer. 1. p. 37.
 In Carolina. 2. v. s.
- glomerata.* 6. R. spicis corymboso-fasciculatis remotissimis geminatis, culmo obtusangulo, foliis linearibus. *Vahl. enum. pl. 2. p. 234.*
Schænus glomeratus. Willd. sp. pl. 1. p. 266.
 In wet meadows along ditches: Pennsylvania—Carolina. *Walter. 2. June, July. v. v.*
- distans.* 7. R. spicis corymboso-fasciculatis remotissimis solitariis, culmo obtusangulo, foliis filiformibus. *Vahl. enum. pl. 2. p. 235.*
Schænus distans. Mich. fl. amer. 1. p. 36.
Schænus axillaris. Lam. illustr. 1. p. 137.
 In ponds which are dry in summer: Virginia, Carolina. 2. July, Aug. v. v.

3. *R. spicis* corymboso-fasciculatis approximatis subgeminatis, bracteis glabris, culmo filiformi acutangulo. *capitellata*.
Vahl. enum. pl. 2. p. 235.
Schœnus capitellatus. Mich. fl. amer. 1. p. 36.
 In Carolina. *Mich. 2. +.*
9. *R. spicis* corymboso-fasciculatis terminalibus, bracteis foliisque obtusiusculis ciliatis. *ciliata*.
Vahl. enum. pl. 2. p. 235.
Schœnus ciliaris. Mich. fl. amer. 1. p. 36.
 In Carolina and Florida. *2. v. s.*
10. *R. spicis* corymboso-fasciculatis, culmo foliisque setaceis. *alba*.
Vahl. enum. pl. 2. p. 236.
Schœnus albus. Willd. sp. pl. 1. p. 267.
Icon. Engl. bot. 985. Fl. dan. t. 320.
 11. *Schœnus fuscus. Willd. sp. pl. 1. p. 262.* *fusca*.
Schœnus setaceus. Thouil. fl. par. 19.
 In bog-meadows, common. *2. July, Aug. v. v.*
55. FIMBRISTYLIS. *Vahl. enum. pl. 2. p. 285.*
1. *F. spicis* ovatis pubescentibus, involucri involucrellisque diphyllis umbella composita umbellulisque longioribus. *puberulum*.
Vahl. enum. pl. 2. p. 289.
Scirpus puberulus. Mich. fl. amer. 1. p. 31.
 In low grounds: Virginia to Florida. *2. July, Aug. v. v.*
2. *F. spicis* ovato-oblongis obtusis, involucri diphylo rigido umbellam subcompositam æquante. *castaneum*.
Vahl. enum. pl. 2. p. 92.
Scirpus castaneus. Mich. fl. amer. 1. p. 31.
Scirpus carolinianus. Lam. illustr. 1. p. 142.
Schœnus umbellatus. Walt. fl. car. 70.
 In Carolina and Florida. *2. July. v. v.*
3. *F. spicis* cylindricis obtusissimis, involucri submonophyllo rigido umbellam simplicem æquante. *cylindricum*.
Vahl. enum. pl. 2. p. 293.
Scirpus palustris altissimus, &c. Gron. fl. virg. 11.
 In North America. *Bosc. 2. +.*
4. *F. spicis* oblongis teretibus acutis, involucri diphylo rigido umbellam decompositam æquante. *spadiceum*.
Vahl. enum. pl. 2. p. 294.
Scirpus spadiceus. Willd. sp. pl. 1. p. 305.
Icon. Sloan. hist. 1. t. 76. f. 2.
 On the banks of rivers in Carolina and Florida. *2. July. v. s.*

56. CYPERUS. *Gen. pl.* 93.* *Culmo tereti.*

- articulatus.* 1. *C. spiculis compressis elongatis nitidiusculis, involucri subnullo, culmo articulado. Vahl. enum. pl. 2. p. 301. Icon. Sloan. hist. jam. 1. t. 81. f. 1.*
In small slow streams : Carolina and Georgia. ♀. July.
v. v.

** *Culmo triquetro.*|| *Spiculis aggregatis.*

- Kyllingæoides.* 2. *C. capitulo globoso, spiculis oblongis convexis subocto-floris, involucri tetraphyllo foliisque carinatis laxis. Vahl. enum. pl. 2. p. 312.*
Icon. Rottb. gram. t. 4. f. 5. C. dubius, p. 20.
In wet pine-woods : New Jersey, Carolina, &c. ♀.
June. *v. v.*
- uncinatus.* 3. *C. capitulo subgloboso glomerato, spiculis linearibus subocto-floris : valvulis lanceolatis recurvato-acuminatis, involucri subdiphyllo longissimo.*
On overflowed gravelly banks of rivers and lakes : Canada, in New York, on Lake Champlain. ♂. June.
v. v.
Planta pusilla. Folia linearia glabra, longitudine culmi. Culmus setaceus, acute triquetrus, biuncialis. Involucrum foliola 2. interdum 3. unum culmo longius, structura foliorum. Capitulum solitarium, conglomeratum, ratione plantæ magnum. Spiculæ numerosæ, divaricatæ, lineari-oblongæ, 6—8-floræ : valvulæ lanceolato-ovatae, longe acuminatæ, apice divaricato quasi uncinatim reflexæ, nervosæ, pallide castaneæ, margine albidæ. C. pygmæo affinis.
- poæformis.* 4. *C. spiculis oblongis complanatis fasciculato-corymbosis : fasciculis sessilibus pedunculatisque, involucri triphyllo longissimo.*
In sandy fields : South Carolina, &c. ♀. July. *v. v.*
Planta spithamæa. Folia angusto-linearia, glabra, vix longitudine culmi. Culmus trigonus, glaber. Involucrum triphyllum ; foliolis 2. longissimis. Fasciculis florum ovatis, sessilibus, uno alterove brevi pedunculato. Ochreæ truncatæ, coloratæ. Spiculæ ovato-oblongæ, circiter octo, breves, quatuor—sex-floræ : valvulæ ovatae, obtusæ, carinatæ, flavescentes. An C. difformis ?

||| *Umbellæ radiis elongatis : spiculis terminalibus, umbellatis.*

5. *C. spiculis linearibus digitato-subternis, umbella involu- autumnalis.*
crum diphyllum subæquante. *Vahl. enum. pl. 2.*
p. 318.

Scirpus autumnalis. Rottb. gram. p. 58.

Cyperus juncoides. Lam. illustr. 1. p. 147.

Cyperus complanatus. Willd. sp. pl. 1. p. 270.

Icon. *Rottb. gram. t. 17. f. 3.*

On the edge of ponds and ditches in Virginia and Carolina. $\mathcal{U}$. July, Aug. *v.v.* Spikes very slender; valves purple with a green carina; stem nearly cylindric.

6. *C. spiculis digitatis subquaternis lanceolato-oblongis val- compressus.*
vulis mucronatis latoribus membranaceis. *Vahl.*
enum. pl. 2. p. 324. Willd. sp. pl. 1. p. 282.

Icon. *Rottb. gram. t. 9. f. 3. Sloan. hist. jam. 1. t. 17.*
f. 1.

In low meadows: Pennsylvania to Carolina. $\mathcal{U}$. July.
v.v.

7. *C. spiculis oblongo-ovatis obtusis, umbellulis confertis brizæus.*
aphyllis, foliis angustis. *Rich. in act. soc. linn. par.*
p. 106.

In swamps of Carolina. $\mathcal{U}$. July. *v.v.*

8. *C. spiculis lanceolatis subgloboso-capitatis compactis, vegetus.*
valvulis ovatis uninervibus, involucri umbella lon-
giore. *Vahl. enum. pl. 2. p. 326. Willd. sp. pl. 1.*
p. 283.

C. compressus. Jacq. hort. vind. 3. t. 12.

C. glomeratus. Walt. fl. car. 70.

C. Eragrostis. Lam. illustr. 1. p. 146.

C. declinatus. Mæench.

C. monandrus. Roth. catalect. 1. p. 3.

Icon. *Jacq. l. c.*

On the borders of ponds, frequent. $\mathcal{U}$. July, Aug. *v.v.*

9. *C. spiculis ovato-lanceolatis capitatis, involucri subhex- formosus.*
aphyllo longissimo margine scabro. *Vahl. enum. pl. 2.*
p. 327.

In Louisiana. *Jussieu. \mathcal{U}. +.*

10. *C. spiculis linearibus globoso-capitatis patentissimis, filiculmis,*
umbella subuniradiata, involucris triphyllis culmisque
setaceis. *Vahl. enum. pl. 2. p. 328.*

In Carolina. *Vahl. \mathcal{U}. +.*

|||| *Umbella radiis elongatis: spiculis alternis.*

- filicinus.* 11. *C. spiculis lineari-lanceolatis remotiusculis laxè imbricatis, involucri triphylo umbella longiore foliisque laxis. Vahl. enum. pl. 2. p. 332.*
In swamps of Virginia and North Carolina. $\mathcal{U}$. July. *v. v.*
- flavescens.* 12. *C. spiculis lineari-lanceolatis confertis, involucri triphylo umbella trifida longiore. Vahl. enum. pl. 2. p. 335. Willd. sp. pl. 1. p. 279.*
Icon. *Fl. græca, t. 47.*
- castaneus.* β *C. pusillus, spiculis brevioribus castaneis.*
Common in low grounds. $\mathcal{U}$. June, July. *v. v.*
- Hydra.* 13. *C. spicis corymbosis, spiculis lineari-lanceolatis distantibus, foliis recurvatis, tuberibus oblongo-subrotundis. Vahl. enum. pl. 2. p. 344. Mich. fl. amer. 1. p. 27.*
In cultivated fields and barren woods: Virginia to Florida. $\mathcal{U}$. July. *v. v.*
- tuberosus.* 14. *C. spiculis lineari-lanceolatis convexiusculis, involucri triphylo umbella quinquerradiata longiore. Vahl. enum. pl. 2. p. 340.*
Icon. *Rottb. gram. t. 7. f. 1.* *Nut-grass.*
On the banks of Delaware and other rivers: Pennsylvania to Carolina. $\mathcal{U}$. June, July. *v. v.* The roots are very sweet, and eaten by children.
- tenuiflorus.* 15. *C. spicis corymbosis, spiculis linearibus convexiusculis, involucri umbella longiore, culmo folioso. Vahl. enum. pl. 2. p. 347.*
Icon. *Rottb. gram. t. 14. f. 1.*
In wet fields in Carolina and Georgia. $\mathcal{U}$. July. *v. v.*
- virens.* 16. *C. spicis corymbosis, spiculis ovalibus, involucri longissimo. Vahl. enum. pl. 2. p. 353. Mich. fl. amer. 1. p. 28.*
In wet meadows and woods: Pennsylvania to Carolina. $\mathcal{U}$. July, Aug. *v. v.*
- odoratus.* 17. *C. spicis corymbosis, spiculis subulatis remotis distichis, valvulis subdistantibus, umbellis patentissimis involucri subæquantibus. Vahl. enum. pl. 2. p. 356. Willd. sp. pl. 1. p. 284.*
Icon. *Sloan. hist. jam. 1. t. 74. f. 1. et t. 8. f. 1.*
On the banks of rivers: Pennsylvania to Florida, rare. $\mathcal{U}$. Aug. *v. v.*
- strigosus.* 18. *C. spicis oblongis laxis, spiculis subulatis patentibus re-*

motiusculis, involucellis subnullis, umbellulæ radiis alternis. *Vahl. enum. pl. 2. p. 358. Willd. sp. pl. 1. p. 281.*

In swamps and ditches, common. *Æ. July. v. v.*

19. *C. spiculis linearilanceolatis, valvulis oblongis obtusis, fructiferis patentibus, involucrio longissimo. Vahl. enum. pl. 2. p. 360. Michx. fl. amer. 1. p. 27.* *flavicomus.*

C. elegans. Walt. fl. car. 70.

In boggy woods: Pennsylvania to Carolina. *Æ. July, Aug. v. v.*

20. *C. spicis distichis, spiculis filiformibus patentibus, flosculis distantibus, umbella stricta. Vahl. enum. pl. 2. p. 362. Willd. sp. pl. 1. p. 288.* *distans.*

Icon. *Rottb. gram. t. 10. C. elatus.*

In sandy wet woods: Carolina and Georgia. *Æ. v. s.*

21. *C. spicis corymbosis, spiculis subulatis distichis, umbellulis involucello brevioribus, ochreis biaristatis, culmo acutangulo. Vahl. enum. pl. 2. p. 364.* *speciosus.*

C. virginicus. Jacq. in Herb. Lambert.

In Virginia. *Vahl. Æ. v. s. in. Herb. Lambert.*

22. *C. spicis corymbosis oblongis basi ramosis nudis, spiculis numerosis divaricatis confertis linearibus subsextifloris, valvulis oblongis striatis, involucrio octophyllo umbellam subæquante.* *Enslenii.*

In ditches and near ponds: Virginia to Florida, rare. *Aug. v. v.*

Folia radicalia, linearia, 3-nervia, glabra, margine carinaque scabra, culmo breviora. *Culmus* lævigatus, triquetrus. *Involucrum* suboctophyllum: foliola interiora breviora, exteriora radiis umbellæ longiora. *Umbella* composita: radii octo vel decem. *Spicæ* oblongæ, basi ramosæ, magnæ. *Spiculæ* numerosæ (circiter 100), horizontales, castaneæ. An var. *C. speciosi*?

I have named this species in memory of Mr. Enslen, through whose generous communication I have been put in possession of a number of grasses and other plants growing in the southern States.

57. DULICHIMUM. *Pers. ench. 1. p. 65.*

1. *D. culmo triquetro folioso, spiculis patulis subsextifloris. spathaceum.*

Pers. ench. l. c.

Pleuranthus floribundus. Rich.

Cyperus spathaceus. Willd. sp. pl. 1. p. 289.

Schœnus angustifolius. *Vahl. enum. pl. 2. p. 225.*

Scirpus spathaceus. *Mich. fl. amer. 1. p. 32.*

Icon. *Pluk. alm. t. 301. f. 1.*

In swamps and bogs from Canada to Florida. ½. July, Aug. *v. v.*

- canadense*. 2. *D. racemis simplicibus pedunculatis, spiculis paucis erectis subdecemfloris.* *Pers. l. c.*
In Canada and New York, in similar situations, rare. ½. Aug. *v. v.* Lower growth and shorter leaves than No. 1.

58. SCIRPUS. *Gen. pl. 94.*

* *Culmo monostachyo.*

- acicularis*. 1. *S. spica ovata, squamis duabus infimis majoribus, culmis tetragonis setaceis, vaginis muticis.* *Vahl. enum. pl. 2. p. 245. Willd. sp. pl. 1. p. 295.*
Icon. *Pluk. alm. t. 40. f. 7. Host. gram. 3. t. 60.*
In shallow ponds and pools, under water, common. ½. July, Aug. *v. v.*
- pusillus*. 2. *S. spica oblonga acuta (pauciflora): squamis linearibus acutis, culmis angulatis capillaribus.* *Vahl. enum. pl. 2. p. 246.*
S. capillaris. *Mich. fl. amer. 1. p. 30.*
In springs and ditches, frequent. ½. June, July. *v. v.*
The smallest of the genus.
- palustris*. 3. *S. spica ovali, squamis lanceolatis acutis, culmis teretibus, vaginis muticis lanceolatis acutis, radice repente.* *Vahl. enum. pl. 2. p. 247. Willd. sp. pl. 1. p. 291.*
Icon. *Fl. dan. t. 273. Host. gram. 3. t. 55.*
In overflowed fields and ditches, frequent. ½. July. *v. v.*
- tuberculosis*. 4. *S. spica ovata acuta, squamis subrotundis, seminibus tuberculo ovato coronatis, culmis teretibus.* *Vahl. enum. pl. 2. p. 248. Mich. fl. amer. 1. p. 30.*
In Lower Carolina. *Michaux. ½. +.*
- filiformis*. 5. *S. spica cylindrica oblonga obtusa, squamis subrotundis, seminibus vertice nudis, culmis filiformibus teretibus.* *Vahl. enum. pl. 2. p. 248. Lam. illustr. 1. p. 138.*
In wet fields, near ditches: New Jersey to Carolina. ½. July, Aug. *v. v.*
- ovatus*. 6. *S. spica ovata, squamis oblongis, floribus subdiandris, culmis subcompressis, vaginis muticis.* *Vahl. enum. pl. 2. p. 249. Willd. sp. pl. 1. p. 294.*

S. compressus. *Mœnch. meth.* 394.

Icon. *Moris. hist.* 3. s. 8. t. 10. f. 34. *Host. gram.* 3. t. 56.

Near ponds and ditches : Pennsylvania. 24. July. v. v.

7. *S. spica subglobosa*, culmis sulcato-angulatis setaceis, vaginis muticis, spica subglobosa. *Vahl. enum. pl.* 2. p. 250. *Willd. sp. pl.* 1. p. 294. *capitatus.*

Icon. *Rottb. gram. t.* 15. f. 3.

In small ponds, very common. 24. Aug. v. v.

8. *S. spica ovato-oblonga*, squamis ovato-subrotundis, culmis teretibus approximate interstinctis. *Vahl. enum. pl.* 2. p. 250. *Willd. sp. pl.* 1. p. 291. *geniculatus.*

Icon. *Sloan. hist.* 1. t. 83. f. 3.

On the sea-shore of Virginia and Carolina. 24. July. v. v.

9. *S. spica cylindrica*, squamis oblongo-subrotundis, culmis tetragonis. *Vahl. enum. pl.* 2. p. 252. *Michx. fl. amer.* 1. p. 30. *quadrangulatus.*

In Carolina. *Michaux.* 24. +.

**** *Culmo polystachyo : spicis lateralibus.***

10. *S. spicis ovatis acutis subsolitariis*, culmis foliisque capillaribus curvatis. *Vahl. enum. pl.* 2. p. 253. *minimus.*

Icon. *Pluk. alm. t.* 300. f. 5. *Rottb. gram. t.* 15. f. 4. *S. setaceus.*

In wet sandy fields and near ponds : Virginia to Carolina. 24. July. v. v.

11. *S. spicis brevi-ovatis conglomerato-sessilibus*, squamis subrotundis membranaceis, culmis striatis. *debilis.*

In wet meadows : Pennsylvania. 24. July, Aug. v. v. *Culmi* teretes, striati, pedales et ultra. *Spiculæ* 4—6. crassæ. *Squamis* latis, acutiusculis. *Setulæ* semine duplo longiores. Affinis *S. setaceo*.

12. *S. aphyllus*, spicis oblongis, squamis integerrimis mucronato-acuminatis, culmo triquetro. *Vahl. enum. pl.* 2. p. 256. *Willd. sp. pl.* 1. p. 303. *mucronatus.*

Icon. *Host. gram.* 3. t. 66.

In swamps and salt-marshes : Canada to Carolina. 24. Aug. v. v.

***** *Culmo polystachyo : spicis terminalibus.***

13. *S. aphyllus*, spicis oblongis, squamis glabris mucronu- *lacustris.*

latis, stylis trifidis, umbella decomposita, culmo tereti.
Vahl. enum. pl. 2. p. 267. Willd. sp. pl. 1. p. 296.

Icon. *Fl. dan. t. 1142. Host. gram. 3. t. 61.*

In stagnant waters: Canada to Carolina. $\mathcal{A}$. July. *v. v.*

validus.

14. *S. aphyllus*, spicis ovato-oblongis, squamis dorso villosis, stylis bifidis, umbella decomposita, involuero brevissimo apice tereti. *Vahl. enum. pl. 2. p. 68.*

In lakes and ponds: Canada to Carolina. $\mathcal{A}$. Aug. *v. v.*
 From four to ten feet high.

robustus.

15. *S. spicis oblongis*, corymbo composito, involucris polyphyllis longissimis, involucellis ovatis longissime aristatis, squamis acutis aristatis, apice laceris, culmo triquetro folioso.

S. maritimus β macrostachyos. *Mich. fl. amer. 1. p. 32.*

In salt-marshes and on the banks of rivers, common.
 $\mathcal{A}$. Aug. *v. v.* Certainly specifically distinct from *S. maritimus*, with which I carefully compared it.

americanus.

16. *S. spiculis sessilibus conglomeratis oblongo-ovatis mucrone brevioribus*, culmo acute triquetro nudo. *Pers. ench. 1. p. 68.*

S. triquet. *Mich. fl. amer. 1. p. 30.*

In salt marshes, frequent. $\mathcal{A}$. July, Aug. *v. v.*

sylvaticus.

17. *S. spicis oblongis congestis*, corymbo supradecomposito folioso, squamis oblongis obtusiusculis viridibus, culmo folioso trigono.

Icon. *Host. gram. 3. t. 68. Fl. dan. t. 307.*

In Canada. *Michaux. \mathcal{A}. +.*

exaltatus.

18. *S. spicis brevi-ovatis congestis*, corymbo composito, squamis rhomboideis carinatis mucronatis coloratis, culmo folioso obtuse trigono.

S. brunneus. Muhlb. in litt.

viviparus.

- β *S. culmo altissimo subscandente*, corymbis viviparis basi ranulorum floriferis.

In shady woods: New York to Carolina. $\mathcal{A}$. July, Aug. *v. v.* The viviparous variety grows in deep shady swamps, and frequently acquires the height of ten feet and more.

nitens.

19. *S. spicis ovatis pedicellatis*, corymbis subcompositis axillaribus terminalibusque, culmo tereti. *Vahl. enum. pl. 2. p. 272.*

In Virginia and Carolina. $\mathcal{A}$. July. *v. v.*

lineatus.

20. *S. spicis oblongo-ovatis pedicellatis*, corymbis axillaribus terminalibusque supradecompositis, pedunculis elon-

gatis, culmo trigono. *Vahl. enum. pl. 2. p. 273.*

Mich. fl. amer. 1. p. 32.

Trichophorum lineatum. Pers. ench. 1. p. 69.

In sandy wet woods : New Jersey to Carolina. 24. July.

v. v. The seeds are naked, consequently it is no *Trichophorum*.

21. *S. spicis capitulisque subglobosis glomeratis, corymbo terminali, culmo folioso. Vahl enum. pl. 2. p. 274. polyphyllus.*

Schœnus cymosus. Willd. sp. pl. 1. p. 265 ?

In shady woods : Virginia and Carolina. 24. July. *v. v.*

22. *S. spicis ovatis, umbella biradiata, culmo capillari. Vahl. enum. pl. 2. p. 276. Linn. mant. 321. capillaris.*

S. pusillus autumnalis, &c. Gron. fl. virg. 11.

In Virginia. 24. July. *v. s. in Herb. Gronov.*

23. *S. spicis oblongis acutis, involucrio diphylo umbella composita brevior, culmo ancipiti, foliis linearibus. Willd. sp. pl. 1. p. 301. excl. syn. Rottboellii. autumnalis.*

S. foliosus pusillus autumnalis, &c. Gron. fl. virg. 10.

S. mucronulatus. Mich. fl. amer. 1. p. 32.

In sandy wet fields : New Jersey to Carolina. 24. Aug.

v. v. ; v. s. in Herb. Gronov.

59. TRICHOPHORUM. *Pers. ench. 1. p. 69.*

1. *T. culmo triquetro folioso, panicula decomposita, spiculis confertis ovatis. Pers. l. c. cyperinum.*

Scirpus Eriophorum. Mich. fl. amer. 1. p. 33.

Eriophorum cyperinum. Willd. sp. pl. 1. p. 313.

Icon. Pluk. mant t. 419. f. 3.

In ditches and near ponds, from Canada to Carolina.

24. July, Aug. *v. v.* Very tall.

2. *T. culmo triquetro nudo, foliis canaliculato-setaceis, spica simplici. alpinum.*

Eriophorum hudsonianum. Mich. fl. amer. 1. p. 34.

In bogs on the mountains of Pennsylvania, Vermont, &c.

24. Aug. *v. v.*

60. ERIOPHORUM. *Gen. pl. 95.*

1. *E. culmis superne trigonis, spica oblonga unica, squamis scariosis. Host. gram. 1. p. 33. cespitosum.*

Icon. Host. l. c. t. 39.

On high mountain meadows : Canada to Virginia. 24.

June, July. *v. v.*

- polystachium*. 2. *E. culmis foliosis teretibus, foliis planis, spicis pedunculatis, seminibus ovatis. Roth. neue beytr. 1. p. 94. Willd. sp. pl. 1. p. 312.*
Icon. *Host. gram. 1. t. 37. Engl. bot. 563.*
In bog-meadows: common. 2. May. v. v.
- angustifolium*. 3. *E. culmis foliosis teretibus, foliis canaliculato-triquetris, spicis pedunculatis, seminibus ovatis. Roth. neue beytr. 1. p. 94. Willd. sp. pl. 1. p. 313.*
Icon. *Engl. bot. 564.*
In mountain meadows, frequent. 2. May. v. v.
- virginicum*. 4. *E. culmo tereti folioso, foliis planis, spicis congestis subsessilibus involucri brevioribus. Vahl. enum. pl. 2. p. 390. Willd. sp. pl. 1. p. 313.*
Icon. *Pluk. alm. t. 299. f. 4.*
Common in bog-meadows, from Canada to Georgia.
2. April, May. v. v.

61. VAGINARIA. *Pers. ench. 1. p. 70.*

- Richardi*. 1. *V. culmo aphylo vaginato, spica ovata subsolitaria, squamis lanceolato-spathulatis. Pers. l. c.*
Fuirena scirpoidea. Mich. fl. amer. 1. p. 38.
Icon. *Mich. l. c. t. 7.*
In overflowed fields: Georgia to Florida. 2. v. s.

62. FUIRENA. *Gen. pl. 90.*

- squarrosa*. 1. *T. umbellis simplicibus, spiculis ovatis, culmo glabro, foliis ciliatis, vaginis pilosis. Vahl. enum. pl. 2. p. 385. Mich. fl. amer. 1. p. 37.*
In bog-meadows: New Jersey, Carolina, &c. 2. July. v. v. A very handsome little grass.

63. MARISCUS. *Vahl. enum. pl. 2. p. 372.*

- ovularis*. 1. *M. spicis ovali-subrotundis, involucris polyphyllis. Vahl. enum. pl. 2. p. 374.*
Schœnus umbellatus. Jacq. collect. 1. p. 113.
Kyllingia ovularis. Mich. fl. amer. 1. p. 29.
Icon. *Pluk. alm. t. 91. f. 4. Jacq. ic. rar. 1. t. 10?*
In sandy wet places: Georgia and Carolina. 2. v. s.
- retrofractus*. 2. *M. spicis retrorsum subimbricatis, spiculis subulatis retrofractis, involucri triphylo. Vahl. enum. pl. 2. p. 375.*

Scirpus retrofractus. *Willd. sp. pl.* 1. p. 304.

Icon. *Pluk. alm. t.* 415. f. 4.

In rocky shady situations, on the banks of rivers: Virginia, Carolina, &c. $\mathcal{U}$. July. v. v. Stems and leaves very rough.

3. *M. spicis cylindricis retrorsum imbricatis, involucris polyphyllis*. *Vahl. enum. pl.* 2. p. 376. *umbellatus.*

Scirpus cyperoides. *Linn. mant.* 181.

Kyllingia umbellata. *Linn. suppl.* 105.

Icon. *Rottb. gram. t.* 4. f. 2.

In shady woods: Virginia and Carolina. $\mathcal{U}$. Aug. v. v.

The American specimen is without partial involucre, in every other respect it agrees with the description.

64. MIEGIA. *Pers. ench.* 1. p. 101.

1. *Miegia*. *Pers. ench.* 1. p. 102.

macrosperma.

Arundinaria macrosperma. *Mich. fl. amer.* 1. p. 74.

Arundo gigantea. *Walt. fl. car.* 81.

In extensive tracts on the Mississippi and Floridas, called Cane brakes, almost impenetrable. *Arundo tecta* of Walter seems to be only a variety of this species. $\mathcal{U}$. March, April. v. v.

65. LIMNETIS. *Richard in Pers. ench.* 1. p. 72.

1. *L. foliis distichis breviusculis setaceo-convolutis, spicis paucis remotis patulis, calyce acuminato: carinis asperis*. *Pers. ench.* 1. p. 72. *junceae.*

Trachynotia juncea. *Mich. fl. amer.* 1. p. 64.

Dactylis patens. *Donn. hort. cant.* 25.

In dry salt-meadows, common. $\mathcal{U}$. July. v. v.

2. *L. subglauca, foliis longissimis, spicis plurimis alternis secundis, calyce aristato acuminato: carinis aculeatis*. *Pers. ench.* 1. p. 72. *cynosuroides.*

Trachynotia cynosuroides. *Mich. fl. amer.* 1. p. 64.

On rocky sea-shores, frequent. $\mathcal{U}$. July. v. v.

3. *L. foliis latis planis, spicis pluribus undique versis longis linearibus, carinis aculeatis*. *Pers. ench.* 1. p. 72. *polystachya.*

Trachynotia polystachya. *Mich. fl. amer.* 1. p. 64.

Dactylis cynosuroides. *Willd. sp. pl.* 1. p. 407.

Common in salt-marshes, from Canada to Florida. $\mathcal{U}$.

Aug. v. v.

66. CENCHRUS. *Gen. pl.* 1574.

- tribuloides.* 1. *C. spica* spiculis alternis, glumis femineis globosis muricato-spinosis hirsutis. *Willd. sp. pl.* 1. p. 317.
C. carolinianus. *Walt. fl. car.* 79.
 Icon. *Sloan. hist.* 1. t. 65. f. 1.
 Near the sea-shore, from New Jersey to Florida. ☉.
 June, July. *v. v.*; *v. s. in Herb. Walter.*

67. ORYZOPSIS. *Mich. fl. amer.* 1. p. 51.

- asperifolia.* 1. *O. culmo* subnudo, foliis erectis subpungentibus asperis.
Mich. l. c.
 Icon. *Mich. l. c. t.* 9.
 On high mountain meadows: Canada and Pennsylvania.
 ♀. July, Aug. *v. v.* I observed this grass on the Broad mountains of Pennsylvania, and consider it worth the attention of farmers, as the considerable large seeds contain the finest flour of any grain I know.

II. DIGYNIA.

68. ZIZANIA. *Gen. pl.* 1433. Indian Rice.

- aquatica.* 1. *Z. panicula* pyramidata, inferne divaricata mascula, superne spicata feminea, fulcris florum clavatis aristis longis, semine elongato.
Z. aquatica. *Lambert. in linn. trans.* 7. p. 264.
Z. palustris. *Linn. mant.* 295. *Gron. virg.* 148.
Z. clavulosa. *Mich. fl. amer.* 1. p. 75.
 Icon. *Lambert. l. c. t.* 13. *Tuscarora or Wild Rice.*
 In all the waters from Canada to Florida, common. ♀.
 July, Aug. *v. v.*
- miliacea.* 2. *Z. panicula* effusa, glumis brevi-aristatis: masculis et femineis mixtis, semine ovato lævi. *Mich. fl. amer.* 1. p. 74.
Z. aquatica. *Willd. sp. pl.* 4. p. 394?
 Icon. *Sloan. hist.* 1. t. 67?
 On the tide water meadows and ditches: Pennsylvania and Carolina. ♀. Aug. *v. v.*

3. *Z. pusilla*, culmis gracilibus ramosis, foliis linearibus planis, spicis solitariis axillaribus setaceis subquadri-floris, glumis muticis. *Mich. fl. amer.* 1. p. 75.
On the banks of Lake Champlain and St. Laurence.
¶. July. v. v. *fluitans.*

69. MUHLENBERGIA. *Gen. pl.* 103.

1. *M. culmo debili ramoso foliisque glabris*, panicula coarctata, calyce univalvi. *Pers. ench.* 1. p. 73. *diffusa.*
Dilepycum minutiflorum. *Mich. fl. amer.* 1. p. 40.
On dry grassy hills, frequent. ¶. June, July. v. v.
2. *M. culmo firmo simplici foliisque pubescentibus*, panicula laxa, calyce bivalvi, arista longissima. *Pers. ench.* 1. p. 73. *erecta.*
Dilepycum aristosum. *Mich. fl. amer.* 1. p. 40.
In dry shady woods, from Canada to Carolina. ¶. July. v. v.

70. TRICHODIUM. *Mich. fl. amer.* 1. p. 41.

1. *T. culmis erectis, foliis angustis breviusculis, vaginis asperiusculis, glumis lanceolatis.* *Mich. fl. amer.* 1. p. 42. *laxiflorum.*
Cornucopiæ hyemalis. *Walt. fl. car.* 73.
Agrostis scabra. *Willd. sp. pl.* 1. p. 370.
Agrostis laxa. *Schreb. gram.*
Icon. *Mich. fl. amer.* 1. t. 8.
Common in all grassy situations. ¶. May—Aug. v. v.
2. *T. culmis decumbentibus, foliis patulis, vagina lævi, glumis lineari-lanceolatis sensim acutis.* *Mich. fl. amer.* 1. p. 42. *decumbens.*
Cornucopiæ perennans. *Walt. fl. car.* 74.
Agrostis anomala. *Willd. sp. pl.* 1. p. 370.
Agrostis cornucopiæ. *Fraser. monogr. cum icone.*
Icon. *Fraser. monogr.*
On moist hills and short grass meadows, from Canada to Carolina. ¶. June—Aug. v. v. This and the first species are highly valuable grasses. *Vide* Fraser's *Monogr.* and Walter's *Flora*.
3. *T. culmis erectis, foliis angustis scabris, vaginis glabris, valvis membranaceis ovato-lanceolatis acuminatis.* *elatum.*
Cornucopiæ altissima. *Walt. fl. car.* 74.
Agrostis dispar. *Mich. fl. amer.* 1. p. 52.

In sandy deep swamps : New Jersey, Carolina, &c. 4.
 July, Aug. v. v. Near three feet high ; panicle
 close, coloured.

71. LEERSIA. *Gen. pl.* 105.

oryzoides.

1. *L. panicula effusa*, spiculis triandris patulis, glumis oblongo-ovalibus carina ciliatis. *Willd. sp. pl.* 1. p. 325.
L. virginica. Willd. l. c.
Icon. Host. gram. 1. t. 35.
 In wet woods and ditches, frequent. 4. July. v. v.

lenticularis.

2. *L. paniculæ ramis subsolitariis*, spiculis imbricatis, glumis orbiculatis ciliatis majusculis. *Mich. fl. amer.* 1. p. 39. *Fly-catch-grass.*
 In wet gravelly woods in Illinois and Virginia. 4. July. v. v. This singular and elegant grass I found on the islands of Roanoke river in North Carolina, and observed it catching flies in the same manner as *Dionæa muscipula* : the valves of the corolla are nearly of the same structure as the leaves of that plant. I communicated specimens with this particular circumstance to Dr. B. S. Barton of Philadelphia, who has made mention of it in a paper on the irritability of plants.

72. MILIUM. *Gen. pl.* 110. Millet-grass.

amphicarpon.

1. *M. paniculæ ramis strictis simpliciusculis*, floribus masculis alternis pedunculatis ; floribus femineis in scapis unifloris radicalibus vaginatis, demum subterraneis.
 In light sandy fields of New Jersey near Egg-harbour. July, Aug. v. v.
Culmi plures teretes, vaginati, sesquipedales et ultra.
Folia lato-linearia, striata, geniculis breviora, undique pilis longis albidis rigidis tuberculo insidentibus tecta.
Vaginæ teretes, striati : suprema aphylla, more foliorum pilosæ. *Ligula* barbata.
Panicula in summitate culmi, pauciflora, stricta : ramis simpliciusculis ; pedicellis florum clavatis. *Glumis* oblongis, acutis, nervosis, æqualibus, glabriusculis. *Flores* omnibus masculis.
Flores feminei in scapis radicalibus unifloris basi vaginatis. *Flores* ante anthesin erecti, dein reflexi, ad maturitatem seminis magni subrotundi subterranei.
 This singular grass deserves particular examination in the living plants, as I had no opportunity to describe

it on the spot where I first found it ; not being aware of its curiosity, until I examined the dried specimens.

73. AGROSTIS. *Gen. pl.* 111. Bent-grass.

* *Aristatæ.*

1. A. petalo exteriore arista recta stricta longissima, panicula patula. *Willd. sp. pl.* 1. p. 361. *Spica venti.*
Icon. Host. gram. 3. t. 47. *Engl. bot.* 951.
 In rye-fields in Pensylvania and Virginia ; brought there by seeds of grain from Europe. ☉. June, July. *v. v.*
2. A. paniculæ simplicissimæ ramis adpressis, corollis aristatis, arista flore longioribus. *Willd. sp. pl.* 1. p. 364. *tenuiflora.*
 On the banks of rivers : Virginia and Carolina. ♀. July. *v. v.*
3. A. paniculæ ramis unifloris filiformibus, corollis aristatis calyce inæquali duplo longioribus hirsutis vaginis villosis. *pauciflora.*
 On high mountains in Virginia and Carolina. ♀. July. *v. v.*
Culmus sesquipedalis, glaber. *Folia* longissime-linearia, villosa, nervosa. *Vaginæ* striatæ, villosæ. *Ligula* brevis. *Panicula* simplicissima, ramis elongatis unifloris. *Cal.* valvis inæqualibus, villosis, brevi-aristatis. *Cor.* oblonga, villosa, calycis valvula interiore duplo longior, brevi-aristata.
4. A. panicula elongata stricta, corollis calyce minoribus : arista e basi petali tortili flore longiore. *Willd. sp. pl.* 1. p. 366. *stricta.*
 In good meadow grounds, very frequent. ♀. June, July. *v. v.*
5. A. calycibus elongatis, petalorum arista dorsali recurva, culmis prostratis subramosis. *Willd. sp. pl.* 1. p. 367. *canina.*
Icon. Fl. dan. 161.
 In wet meadows, frequent. Brought from Europe. ♀. July. *v. v.*

** *Muticæ.*

6. A. panicula patente, ramulis divaricatis capillaribus, calycibus æqualibus, petalo interiore duplo breviorere tuto. *Smith. fl. brit.* 1. p. 79. *vulgaris.*
A. hispida. *Willd. sp. pl.* 1. p. 370.
A. capillaris. *Retz. scand. no.* 95.

Icon. *Fl. dan.* 161.

Common in all grassy fields. $\mathcal{U}$. July. *v. v.*

- aspera*. 7. *A. paniculis* coarctatis lateralibus terminalibusque, vaginis barbatis, foliis recurvatis asperis, glumæ valvis interioribus triplo majoribus. *Mich. fl. amer.* 1. p. 52.
A. barbata. *Pers. ench.* 1. p. 75.
A. littoralis. *Lam. illust.* 1. p. 161.
 In the western districts of the United States, in rocky situations. *Michaux.* On the sea-shore of Florida. *Lam.* $\mathcal{U}$. July. *v. s.* in *Herb. Enslin.*
- alba*. 8. *A. panicula* laxa, calycibus muticis æqualibus, culmo repente. *Willd. sp. pl.* 1. p. 371.
 On the banks of rivulets and springs, frequent. $\mathcal{U}$. July. *v. v.*
- pungens*. 9. *A. panicula* contracta spicæformi, foliis involutis rigidis pungentibus superioribus oblique oppositis, culmo ramoso. *Schreb. gram.* 2. p. 46.
A. virginica. *Willd. sp. pl.* 1. p. 373.
 Icon. *Schreb. l. c. t.* 27. f. 3.
 On dry gravelly hills in Virginia. $\mathcal{U}$. July, Aug. *v. v.*
- Cinna*. 10. *A. panicula* magna debili, foliis lato-linearibus glabris, valvula altera infra apicem subaristata, caule glabro.
Cinna arundinacea. *Willd. sp. pl.* 1. p. 31.
 On rivers and islands, under the tide waters, common; from Canada to Carolina. $\mathcal{U}$. Aug. *v. v.*
- mexicana*. 11. *A. panicula* oblonga congesta, calycibus corollisque acuminatis subæqualibus muticis. *Willd. sp. pl.* 1. p. 374.
 In wet meadows: Virginia, &c. $\mathcal{U}$. June. *v. v.*
- indica*. 12. *A. panicula* contracta mutica, racemis lateralibus erectis alternis, glumæ valvis exterioribus longissimis, foliis longissimis, sensim setaceo-convolutis. *Mich. fl. amer.* 1. p. 52. *Willd. sp. pl.* 1. p. 375.
 In Carolina, Florida, &c. *Michaux.* ☉. †. *v. s.* in *Herb. Lambert.*
- juncea*. 13. *A. panicula* oblongo-pyramidata, floribus muticis: valvula extima duplo minore, foliis stricte erectis convoluto-setaceis rigidulis. *Mich. fl. amer.* 1. p. 52.
 In barren sandy places: New Jersey to Florida. $\mathcal{U}$. July, Aug. *v. v.*
- lateriflora*. 14. *A. paniculis* lateralibus terminalibusque coarctatis, floribus muticis, valvulis acutissimis: interioribus ma-

joribus basi barbatis, foliis planis brevibus. *Mich. fl. amer.* 1. p. 53.

In rich soil on the edges of woods, from New York to Florida, especially in the western countries. *U.* June, July. *v. v.* Apparently a grass worth the attention of the cultivator.

15. *A. racemo oblongo, e spicis densifloris interrupto, glumæ exterioris valvis in mucronem aristiformem desinentibus, gluma interiore mutica longioribus. Mich. fl. amer.* 1. p. 53. *racemosa.*

On the overflowed banks of the river Mississippi. +.

74. ANTHOXANTHUM. *Gen. pl.* 58.

1. *A. spica oblonga ovata, flosculis subpedunculatis arista longioribus. Willd. sp. pl.* 1. p. 156. *odoratum.*
Icon. Host. gram. 1. t. 5. *Fl. dan.* 666. *Engl. bot.* 647.
 Common in meadows; probably brought with grass seeds from Europe. *U.* May—July. *v. v.*

75. PHALARIS. *Gen. pl.* 106.

1. *P. panicula oblonga ventricosa coarctata, glumis acuminatis. Pers. ench.* 1. p. 78. *Willd. sp. pl.* 1. p. 326. *arundinacea.*
Arundo colorata. Ait. kew. ed. 2. 1. p. 174.
Icon. Host. gram. 2. t. 33. *Engl. bot.* 402.
 On river banks, frequent: Canada to Virginia. *U.* July, Aug. *v. v.*
2. *P. panicula multiflora stricta, floribus ovatis villosis. Mich. fl. amer.* 1. p. 43. *villosa.*
 In woods of Carolina. *Michaux.* +.

76. PHLEUM. *Gen. pl.* 123. Timothy-grass.

1. *P. spica cylindrica longissima ciliata, culmo erecto. Willd. sp. pl.* 1. p. 354. *pratense.*
Icon. Host. gram. 3. t. 9.
 In fields and meadows, common. *U.* ♂. June—Sept. *v. v.*

77. ALOPECURUS. *Gen. pl.* 102.

1. *A. culmo erecto, glumis villosis, corollis muticis. Willd. sp. pl.* 1. p. 357. *pratensis.*
Icon. Host. gram. 2. t. 31. *Engl. bot.* 759.
 In fields and gardens, frequent, introduced from Europe. *U.* May—Aug. *v. v.*

- subaristatus*. 2. *A. culmo erecto, glumis ovalibus obtusis, arista vix ex-
erta. Mich. fl. amer. 1. p. 43.*
*A. carolinianus, culmo radicante, panicula subspicata,
glumis lævibus, corollis aristatis. Walt. fl. car 74?*
 In swamps of Canada. *Michaux. 2. v. s. in Herb.
Walter.*

78. PANICUM. *Gen. pl.* 107.* *Spicata.*

- glaucum*. 1. *P. spica tereti subflavida, involucellis bifloris fasciculato-
setosis, seminibus transversim rugosis. Lam. encycl. 4.
p. 736. Willd. sp. pl. 1. p. 335.*
Icon. Host. gram. 2. t. 16.
 Common in fields and on road sides; probably from Eu-
rope. ☉. June—Aug. *v. v.*
- viride*. 2. *P. spica tereti subcomposita indivisa, involucellis setosis
mitibus, seminibus nervosis. Lam. encycl. 4. p. 737.*
Willd. sp. pl. 1. p. 335.
Icon. Host. gram. 2. t. 14. Engl bot 875.
 In sandy fields: Pennsylvania and Virginia. ☉. July. *v. v.*
- verticillatum*. 3. *P. spica verticillata, racemulis quaternis, involucellis
unifloris bisetis, culmis diffusis. Willd. sp. pl. 1.
p. 334.*
P. alopecuroideum. Walt. fl. car. 72.
Icon. Host. gram. 2. t. 13.
 In sandy woods: New Jersey to Carolina. ☉. June,
July. *v. v.*; *v. s. in Herb. Walter.*
- hirtellum*. 4. *P. spica composita: spiculis adpressis alternis, calycibus
geminis: valvulis omnibus aristatis: extima longissi-
ma. Willd. sp. pl. 1. p. 340.*
Icon. Host. gram. 3. t. 52.
 In shady places: Carolina and Florida. *Michaux. +.*
- Crus galli*. 5. *P. spicis alternis conjugatisque crassis squarrosis, glumis
hispidis aristatis, rachii angulato vaginis glabris. Lam.
encycl. 4. p. 744. Willd. sp. pl. 1. p. 337.*
Icon. Host. gram. 2. t. 19. Engl. bot. 876. Fox-tail.
- aristatum*. α. *P. glumis omnibus aristatis: aristis prælongis.*
mite. β. *P. glumis omnibus muticis mucronatis.*
purpureum. γ. *P. glumis mucronatis coloratis.*
 In cultivated grounds, frequent. ☉. July. *v. v.*
- Walteri*. 6. *P. spicis alternis erectis solitariis simplicibus, glumis
ovatis, muricato-hispidis aristatis: arista altera lon-*

gissima, rachi trigona, vaginis hispidissimis, foliis glabris.

P. muricatum. *Mich. fl. amer.* 1. p. 47.

P. hirtellum. *Walt. fl. car.* 72.

Near the salt-water: Canada and New York. ☉. July—Sept. *v. v.*; *v. s.* in *Herb. Lambert. nec non Walter.*

7. *P. spicis solitariis alternis simplicissimis, rachi glumisque dense pubescentibus, glumis solitariis alternis ovatis muticis bifloris: flore altero masculino, altero hermaproditio.* *Mich. fl. amer.* 1. p. 47. *molle.*

In sedgy meadows: Florida. *Michaux.* +.

**** *Paniculata.***

8. *P. racemis linearibus virgatis, glumis clavatis coloratis, fusco-rubens. pilis sub panicula divisuris.* *Lam. encycl.* 4. p. 737.

Icon. *Sloan. hist.* 1. t. 72 f. 2?

In rice fields in Georgia. 24. Aug. *v. s.*

9. *P. panicula oblonga, glumis majusculis glabris viridibus pulchre striatis.* *Lam. encycl.* 4. p. 748. *striatum.*

In Carolina. *Fraser.* +.

10. *P. panicula virgata ramosissima, glumis ovatis acuminatis muticis bifloris, foliis longissimis planis.* *virgatum.*

P. virgatum. *Mich. fl. amer.* 1. p. 352.

P. coloratum. *Walt. fl. car.* 73.

On river sides: New England to Carolina. 24. July, Aug. *v. v.* Very tall.

11. *P. panicula capillacea ramosa, glumis striatis pubescentibus, seminibus nitidis, foliis remotis lanceolato-linearibus collo barbatis, caule glabro.* *nitidum.*

P. nitidum. *Lam. encycl.* 4. p. 748. *Mich. fl. amer.* 1. p. 49.

- β. *P. omnibus partibus multo majus.* *majus.*

Common in woods and fields. ☉. June—Aug. *v. v.*

P. barbulatorum *Mich.* I consider a variety of this species.

12. *P. paniculis simplicissimis paucifloris, glumis obovatis, foliis lineari-lanceolatis divaricatis glabris basi et collo barbatis, caule dichotomo.* *dichotomum.*

P. dichotomum. *Willd. sp. pl.* 1. p. 346.

In dry woods, frequent. 24. July, Aug. *v. v.*

13. *P. panicula capillari ramosissima laxa, floribus minutis* *capillare.*

omnibus pedicellatis solitariis oblongo-ovatis acuminatis muticis, foliis vaginisque hirsutissimis. *Mich. fl. amer. 1. p. 47. Willd. sp. pl. 1. p. 349.*

In sandy fields: New Jersey to Florida. ☉. June—Aug. v. v. This grass is remarkably variable in size. I have seen specimens from three inches to five feet high.

diffusum.

14. *P. panicula simpliciuscula capillari patente, flosculis remotiusculis acutis, culmo simplici, foliis longis linearibus collo vaginisque villosis. Swartz. prodr. 23.*

P. caespitium. Lam. encycl. 4. p. 743.

In dry sandy woods: Virginia, Carolina, &c. ☉. July. v. v.

scoparium.

15. *P. panicula erecta composita setaceo-ramosissima, glumis obovatis pubescentibus, foliis lanceolatis villosis. Mich. fl. amer. 1. p. 49.*

In dry swamps of Carolina. *Michaux. ☉. +.*

nodiflorum.

16. *P. paniculis minimis lateralibus terminalibusque, glumis ovatis pubescentibus, foliis angustis breviusculis collo barbatis. Lam. encycl. 4. p. 744.*

P. ramulosum. Mich. fl. amer. 1. p. 30.

In dry fields: Pennsylvania to Carolina. ☉. July. v. v.

proliferum.

17. *P. glaberrimum, paniculis oblongis erectis lateralibus terminalibusque, glumis oblongis acutis striatis, caule ramoso-dichotomo. Lam. encycl. 4. p. 747.*

P. dichotomiflorum. Mich. fl. amer. 1. p. 48.

In rich soil, in woods, on edges of ditches: Pennsylvania to Carolina. ♀. July, Aug. v. v.

pubescens.

18. *P. erectum ramosissimum pubescens, paniculis parvis paucifloris laxis sessilibus, glumis globoso-ovatis subpedicellatis pubescentibus. Lam. encycl. 4. p. 748. Mich. fl. amer. 4. p. 49.*

In shady rich woods: Virginia to Carolina. ☉. July. v. v.

laxiflorum.

19. *P. panicula patente laxa pilosa, glumis raris obtusis pubescentibus. Lam. encycl. 4. p. 748.*

In North America. *Lamarck. ☉. +.*

latifolium.

20. *P. panicula patenti mediocri, glumis ovatis acutiusculis subpubescentibus, foliis ovato-lanceolatis amplexicaulis glabris, vaginis pilosis.*

P. latifolium. Willd. sp. pl. 1. p. 350.

clandestinum.

- β. *P. paniculis inclusis paucifloris. Willd. sp. pl. 1. p. 351.*

In shady woods: New England to Georgia. ♀. July. v. v.

21. *P. erectum*, paniculæ ramis simplicibus interrupte racemulosis, flore accessorio neutro : hermaphrodito valvis primariis semibrevis obtusissimo, foliis longis, vaginis compressis pilosis. *Mich. fl. amer.* 1. p. 48.
In shady wet woods : Carolina. *Michaux.* +.
22. *P. debile*, glaberrimum, panicula gracili longa : ramulis raris adpressis, glumæ membranaceæ valvis subæqualibus lanceolatis, foliis angustis longis. *Mich. fl. amer.* 1. p. 50. *melicarium.*
P. nudum. *Walt. fl. car.* 73 ?
In Carolina and Georgia. 4. July, Aug. v. v.
23. *P. glabrum*, erectum ; panicula pyramidata, ramis paucis dissitis, plerisque geminis simpliciusculis divaricatis reflexisque, floribus muticis binis : altero pedicellato neutro, foliis angusto-longis. *Mich. fl. amer.* 1. p. 50. *divaricatum.*
In high mountains of Carolina. *Michaux.* +.
24. *P. glabrum*, elatum ; paniculis pyramidatis lateralibus geminis elongato-pedunculatis terminalibusque : ramulis alternis divaricatis, glumis alternis oblongis acutis pedicellatis coloratis, foliis longis : collo subbarbato, caule compr. sso. *elongatum.*
In ditches and near ponds : New Jersey to Virginia. 4. July. v. v. A very handsome grass, sometimes five feet high ; panicle a dark purple mixed with green.
25. *P. panicula solitaria folio terminali breviora* : ramis simplicibus flexuosis, glumis alternis pedunculatis obovatis turgidis : valvulis multistriatis acutis, foliis linearibus strictis sensim acutissimis, supra striatis scabris subtus pilosis, vaginis longissime pilosis. *strictum.*
On the banks of Delaware : Pennsylvania. ☉. July. v. v.

79. DIGITARIA. *Hall.* Crop-grass.

1. *D. spicis pluribus, floribus imbricatis geminis, vaginis folisque papilloso-pilosis, culmo repente.* *Mich. fl. amer.* 1. p. 45. *Sanguinale.*
Panicum sanguinale. *Willd. sp. pl.* 1. p. 342.
Paspalum sanguinale. *Lam. encycl.* 5. p. 33.
Syntherisma præcox. *Walt. fl. car.* 76.
Icon. Host. gram. 2. t. 17. *Curt. lond.* 4. t. 7.
Common in cultivated ground. ☉. June—Aug. v. v.
2. *D. spicis pluribus (2—5) : erectis filiformibus, floribus* *pilosa.*

remotis hirsutis geminis : altero vix pedicellato, foliis brevibus, vaginis pilosis, culmo erecto glabro superne nudo. *Mich. fl. amer.* 1. p. 45.

Syntherisma villosa. *Walt. fl. car.* 77.

Panicum filiforme. *Willd. sp. pl.* 1. p. 343.

Paspalum debile. *Lam. encycl.* 5. p. 34.

In sandy dry fields and on hills : New Jersey to Georgia.

☉. May—Aug. v. v.

paspaloides.

3. *D. spicis* geminis basi subvillosis, rachi latiuscula glabra, floribus solitariis bifariam imbricatis glabris, foliis patentibus, vaginis glabris collo villosis, culmo repente. *Mich. fl. amer.* 1. p. 46.

Paspalum supinum. *Bosc. in lam. encycl.* 5. p. 29.

On hills of red clay and iron ore : Virginia. ☉. July. v. v.

serotina.

4. *D. spicis* pluribus setaceis, floribus binis vel ternis minutis pedicellatis, foliis vaginisque villosis, culmo decumbente. *Mich. fl. amer.* 1. p. 46.

Syntherisma serotina. *Walt. fl. car.* 76.

In low wet places : Carolina. ☉. June—Aug. v. v.

80. CYNODON. *Richard in Pers. ench.* 1. p. 85.

Dactylon.

1. *C. spicis* digitatis patentibus, basi interiori villosis, floribus solitariis, sarmentis repentibus *Pers. l. c.*

Panicum Dactylon. *Willd. sp. pl.* 1. p. 342.

Digitaria Dactylon. *Allion. fl. ped.* 11. 238.

Paspalum Dactylon. *Lam. encycl.* 5. p. 32.

Paspalum præcox. *Walt. fl. car.* 75.

On road sides and in cultivated ground, frequent. ♀. v. v. ; v. s. in *Herb. Walter.*

81. PASPALUM. *Gen. pl.* 81.

setaceum.

1. *P. spica* unica gracili, glumis geminis suborbiculato-obovatis glabris, foliis villosis, culmo setaceo erecto. *Mich. fl. amer.* 1. p. 43.

P. dissectum. *Walt. fl. car.* 75.

In dry sandy fields in Lower Carolina. ☉. June, July. v. s.

debile.

2. *P. spica* plerumque unica tenui, glumis uniseriatis, contigue alternis solitariis pubescentibus, brevi-obovatis, foliis hirsutis, culmo debili setaceo. *Mich. fl. amer.* 1. p. 43.

On the sea-shores of Carolina and Georgia. *Michaux.* +.

3. *P. spicis alternis subbinis, glumis subtriseriatis geminis orbiculato-obovatis obtusis glabris, foliis lanceolato-linearibus serrulato-ciliatis, culmo decumbente. Mich. fl. amer. 1. p. 44.*
ciliatum.
 In clay soil where iron ore abounds : Virginia and Carolina. 2. July. v. v.
4. *P. spicis pluribus alternis, glumis biseriatis suborbiculato-ovatis glabris lævibus, foliis glabris, ligula ciliata, vaginis compressis, caule suberecto. Mich. fl. amer. 1. p. 44.*
læve.
P. lentiferum. Lam. encycl. 5. p. 30.
P. membranaceum. Walt. fl. car. 75.
 In dry meadows and grassy hills : Pennsylvania to Carolina. 2. June - Aug. v. v.
5. *P. spicis paucis erectis, glumis biseriatis suborbiculatis glabris lævibus, foliis inferioribus pilosis, superioribus glabris, vaginis longissimis, caule erecto. Mich. fl. amer. 1. p. 44.*
floridanum.
P. virgatum. Walt. fl. car. 75 ?
 In sandy fields : Carolina to Georgia. ☉. June. v. s.
6. *P. glaberrimum ; spicis pluribus alternis erectis, glumis subtriseriatis brevibus ovatis rufescentibus glabris, valvula plana juxta margines transverse plicata, foliis longis, caule erecto. Mich. fl. amer. 1. p. 45.*
plicatum.
P. paniculatum Walt. fl. car. 75 ?
 In Georgia and Florida. Michaux. +.
7. *P. spiculis elongato-racemosis subverticillatis p. tentibus, glumis alternis ovatis serrulato-ciliatis transverse-rugosis, foliis brevibus basi subcordatis, caule basi prostrato.*
stoloniferum.
P. stoloniferum. Bosc in linn. trans. 2. p. 83.
P. racemosum. J. cy. ic. rar. t. 302.
Milium latifolium. Cav. ic. 3. p. 37. t. 273.
Icon. Bosc. l. c. Jacq. l. c.
 In cedar swamps of New Jersey. 2. July, Aug. v. v.
 I found this plant among a parcel of grasses and other plants collected in autumn 1811, in Monmouth county, New Jersey. As I had no time to examine the collection then, I was much surprised on finding this very interesting grass among them. That it is the same with *P. stoloniferum* of Peru, I have no doubt, as I carefully compared it with the specimens in the collection of A. B. Lambert, Esq.

82. ARISTIDA. *Gen. pl.* 125.

- dichotoma.* 1. *A. cespitosa*, culmis dichotomis, floribus subspicatis, subuniaristatis: arista contorta gluma brevior: lateralibus brevissimis. *Mich. fl. amer.* 1. p. 41.
On dry gravelly soil: New England to Carolina, common. ♂. May—July. *v. v.* Resembles *Nardus stricta*.
- stricta.* 2. *A. culmis foliisque stricte erectis*, racemo longo spicato coarctato: aristis gluma longioribus, foliis convolutofiliformibus, glabris. *Mich. fl. amer.* 1. p. 41.
In shady rocky situations, on river sides: Virginia, Carolina, &c. ♀. June, July. *v. v.*
- oligantha.* 3. *A. culmo stricto subramoso*, foliis convolutofiliformibus, floribus distantibus solitariis, aristis longis divaricatis. *Mich. fl. amer.* 1. p. 41.
A. adscensionis. *Walt. fl. car.* 74.
On the banks of rivers, in rocky places: Illinois, Virginia, &c. ♀. June, July. *v. v.*

83. STIPA. *Gen. pl.*

- juncea.* 1. *S. foliis convuluto-filiformibus*, panicula laxa, calycibus subaristatis semine longioribus, aristis longis vix pubescentibus.
S. juncea. *Willd. sp. pl.* 1. p. 440.
Icon. Desf. atl. 1. t. 28.
On the banks of the Missouri. *M. Lewis.* ♀. Aug. *v. s. in Herb. Lewis.* By a careful comparison of this plant and one from the north-west coast of America, collected by Mr. Menzies, in possession of A. B. Lambert, Esq. and a specimen from the south of Europe in the same collection, I could find no other distinction from *S. juncea* than the seeds being more pubescent, and the arista not so much as figured in Desfontaines' Flora.
- canadensis.* 2. *S. foliis setaceis*, panicula parva, calycibus glabris obtuse-ovatis semine pubente æquantibus, aristis crassis brevibus. *Lam. encycl.* 7. p. 452.
A. juncea. *Mich. fl. amer.* 1. p. 54.
In rocky places: Canada, Hudson's Bay, &c. +.
- avenacea.* 3. *S. foliis striatis glabris*, panicula patente subunilateralis: ramis verticillatis ramulosis, calycibus acutis membranaceis semine glabro æquantibus, aristis nudis, tortuosis.—*Willd. sp. pl.* 1. p. 442.

In barren dry woods : Virginia, Carolina, &c. 24. June.
v. v.

4. *S. foliis convoluto-filiformibus, panicula pauciflora : ramis simplicibus 1-2-floris, calycibus oblongis acuminate semine vix longioribus, corollis stipitatis : stipite barbato.*—*Vahl. symb. 2. p. 24.*

bicolor.

S. barbata. Mich. fl. amer. 1. p. 53.

S. avenacea. Walt. fl. car. 77.

S. virginica. Pers. ench. 1. p. 99.

Icon. Cav. ic. 5. t. 406. f. 2 ? *Winter-green.*

In shady woods : Virginia to Georgia. 24. July, Aug.
v. v.

5. *S. foliis tereti-filiformibus longissimis, panicula effusa tenuissime capillacea, calyce corolla parva triplo brevior, aristis nudis strictis.* *Mich. fl. amer. 1. p. 54.*

sericea.

S. capillaris. Lam. encycl. 7. p. 450.

S. diffusa. Walt. fl. car. 78.

In sandy fields : New Jersey to Carolina. 24. June—Aug. v. v. This elegant grass, whose silky purple panicles exceed in beauty any other I know, seems to deviate from the rest of this genus, particularly in the short glumes of the calyx, and almost deserves to be a separate genus.

6. *S. foliis striatis glabris glaucescentibus, spicis alternis paniculatis expansis, floribus sessilibus remotis, calycibus corolla longioribus, arista brevissima nuda.*—*Lam. encycl. 7. p. 453.*

expansa.

In Carolina. *Bosc. +.*

7. *S. foliis arundinaceis, panicula elongata aristata, pedunculis articulatis strictissimis, aristis nudis subflexuosis.* *Lam. encycl. 7. p. 453.*

stricta.

In Carolina. *Fraser. +.*

84 SACCHARUM. *Gen. pl. 104.*

1. *S. vaginis lanatis, gluma villis brevior, valvis exterioribus villosis.* *Pers. ench. 1. p. 103.*

giganteum.

Erianthus saccharoides. Mich. fl. amer. 1. p. 55.

Anthoxanthum giganteum. Walt. fl. car. 65.

Andropogon culmo paniculato. Gron. fl. virg. 133.

In low places generally among rocks : Virginia to Florida, rare. 24. July, Aug. v. v. From five to nine feet high, with very large panicles, which when in flower are extremely handsome.

brevibarbis. 2. *S. vaginis collo subvillosis, panicula stricta, gluma villosa longiore, valvis acutissimis nudis.* *Pers. ench.* 1. p. 103.

Erianthus brevibarbis. *Mich. fl. amer.* 1. p. 55.

On dry hills, in mountains: Virginia Tennessee, Carolina, &c. *fl.* July. *v. v.* Not above two feet high.

85. ANDROPOGON. *Gen. pl.* 1566.

* *Panicula terminali.*

nutans. 1. *A. panicula ramosa coarctata nutante, floribus geminatis aristatis, calycibus hirsutis, hermaphrodito sessili, masculo pedicellato caduco.* *Willd. sp. pl.* 4. p. 906.
In barren dry situations: New England to Florida. *fl.* June, July. *v. v.*

avenaceus. 2. *A. foliis asperis vaginisque glabris, panicula nuda subpyramidatim oblonga multiflora, floribus rufescentibus triandris, glumæ valva altera villosa, arista valde contorta.* *Mich. fl. amer.* 1. p. 58.
In the prairies of Illinois. *Michaux.* +.

ambiguus. 3. *A. foliis amplexicaulibus subcordato-lanceolatis, panicula ramis promissa setaceis simplicibus erectis, glumis solitarie alternis unifloris, flore imberbi longissime aristato triandro, flosculi accessorii incremento aristiformi.* *Mich. fl. amer.* 1. p. 58.
In sandy woods: Carolina. *Michaux.* +.

alopecuroides. 4. *A. panicula simplici oblonga elongata, spicis verticillatis simplicibus, floribus aristatis geminatis, altero sessili, altero pedicellato, rachi lanata, lana floribus longiore.* *Willd. sp. pl.* 4. p. 911.
Icon. Sloan. hist. 1. t. 70. f. 1.
In North America. *Linn. sp. pl.* 1045. +.

This species is very doubtful as a North American plant; the synonym of Gronovius evidently belongs to *Saccharum giganteum*. Neither Michaux nor any other botanist (as far as I could learn) collected it in North America.

Scoparium. 5. *A. spicis simplicibus pedunculatis geminatis stricte paniculatis, floribus geminis, hermaphrodito sessili lanceolato aristato, neutro pedicellato aristato, rachi ciliata.*—*Mich. fl. amer.* 1. p. 57.
A. purpurascens. *Willd. sp. pl.* 4. p. 913.
A. divaricatum. *Willd. sp. pl.* 4. p. 905?

Common in old fields and dry meadows ; called *Broom-grass*. $\mathcal{U}$. June – Aug. *v. v.* A very obnoxious weed.

*** Spicis conjugatis s. fasciculatis.*

6. *A. vaginis* margine villosis, paniculis lateralibus fasciculatim polystachyis, floribus monandris, arista 4–5-tuplo glumæ longitudine, valvis anterioribus glabris. *Mich. fl. amer.* 1. p. 56. *macrourus.*

Cinna glomerata. *Walt. fl. car.* 59.

In low meadows and woods : Carolina and Florida. $\mathcal{U}$. +.

7. *A. vaginis* glabris, culmis erectis, spicis lateralibus dissitis, floribus monandris, arista longa recta, valvis interioribus glabris. *Mich. fl. amer.* 1. p. 57. *dissitiflorus.*

Cinna lateralis. *Walt. fl. car.* 59.

In dry woods and old fields, frequently found on high mountains : Pennsylvania to Florida. $\mathcal{U}$. July. *v. v.*

8. *A. ramis* remote alternis solitariis simplicibus plerisque tristachyis, spicis distanter alternis bifidis, villis involucri gluma brevioribus, floribus triandris, valvis interioribus subvillosis, intima ex incisura aristam longam contortam emittente. *Mich. fl. amer.* 1. p. 57. *ternarius.*

In the mountains of Virginia and North Carolina. $\mathcal{U}$. July. *v. v.*

9. *A. paniculæ* spicis conjugatis, pedunculis simplicibus, rachi lanata. flosculis muticis ; mascula tabescente. *Willd. sp. pl.* 4. p. 916. *virginicus.*

In Virginia. *Gronov.* $\mathcal{U}$. +.

10. *A. spicis* conjugatis paniculatis, panicula bracteata fastigiato-corymbosa, floribus ternis muticis, intermedio hermaphrodito sessili, lateralibus neutris pedicellatis, rachi longissime ciliata. *Willd. sp. pl.* 4. p. 916. *bicornis.*

In Virginia. *Gronov.* $\mathcal{U}$. +.

11. *A. spicis* digitatis subquaternis, floribus geminatis, hermaphrodito sessili aristato, masculo mutico pedicellato, rachi pilosa. *Willd. sp. pl.* 4. p. 919. *furcatus.*

In rocky situations : Canada to Virginia, rare. $\mathcal{U}$. June, July. *v. v.*

86. *ATHEROPOGON.* *Muhl. in Willd. sp. pl.* 4. p. 937.

1. *Atheropogon.* *Willd. l. c.* *apludoïdes.*

In North America. *Muhl.* +. About a foot high ; leaves narrow ; flowers alternate in a spike.

87. TRISETUM. *Pers. ench.* 1. p. 97.*pratense.*

1. *T. panicula subcontracta, spicis nitidis, vaginis longis striatis glabris, foliis superne villosis. Pers. l. c.*
Avena flavescens. Willd. sp. pl. 1. p. 449.
Icon. Schreb. gram. t. 9. Host. gram. 3. t. 38.
 In meadows: Pennsylvania and Virginia, rare. $\mathcal{U}$. July.
v. v.

89. AIRA. *Gen. pl.* 112.*pumila.*

1. *A. panicula parva fastigiata (pauciflora): pedicellis brevibus, floribus muticis obtusis calyce duplo longioribus: valvulis margine membranaceis, foliis planis glabris, culmo erecto vix foliis altiore.*
 On barren clay soil, near brick-yards: Pennsylvania. $\mathcal{U}$.
 June. *v. v.* Scarce an inch high; in close tufts.

aquatica.

2. *A. panicula patente semiverticillata, floribus muticis obtusis lævibus calyce longioribus, foliis planis, culmo repente.—Willd. sp. pl.* 1. p. 376.
Icon. Host. gram. 2. t. 41. Engl. bot. 1557.
 On water sides and sometimes floating in water, frequent.
 $\mathcal{U}$. May—July. *v. v.*

melicoides.

3. *A. panicula parva subracematim coarctata: gluma comuni partialibusque majusculis lineari-lanceolatis muticis: floribus basi villosis, rudimento flosculi tertii, foliis planis glabris, culmo erecto. Mich. fl. amer.* 1. p. 62.

In shady woods: Canada to Pennsylvania. $\mathcal{U}$. July. *v. v.*

obtusata.

4. *A. panicula in racemum oblongum confertiflorum coarctata, floribus muticis apice compressis, glumæ valva altera angusto-lineari acuta: altera lato-obovali rotundato-obtusissima, foliis planis, culmo gracili erecto. Mich. fl. amer.* 1. p. 62.

In dry fields: New England to Florida. $\mathcal{U}$. June, July.
v. v.

brevifolia.

5. *A. panicula semiverticillata patente: ramis simpliciusculis alternifloris, floribus muticis calycem æquantibus, glumis omnibus lanceolatis acutis, foliis planis, culmo stricto glabro nudinsculo.*

In the plains of Missouri. *M. Lewis.* $\mathcal{U}$. June, July.
v. s. in Herb. Lewis. This grass is the most common in those plains.

capillacea.

6. *A. panicula capillacea effusa, flosculis muticis calyce*

longioribus: altero pedicellato, glumis acutis carina asperis, foliis angustis glabris brevibus, culmo erecto.

A. capillacea. *Lam. illustr.* 1. p. 177.

On slate hills and in sandy fields: Virginia to Carolina.

¶. July. *v. v.* About eight inches high; panicle purple.

7. *A. foliis setaceis, vaginis angulatis, floribus paniculato-spicatis, flosculis basi aristatis.* *Willd. sp. pl.* 1. p. 380.

præcox.

Icon. *Fl. dan.* 383.

On dry sandy hills: Virginia, &c. ☉. June. *v. v.*

8. *A. panicula patente, petalis aristatis basi villosis: arista recta brevi.* *Willd. sp. pl.* 1. p. 378.

cespitosa.

Icon. *Host. gram.* 2. t. 42. *Engl. bot.* 1153.

In meadows, frequent. ¶. June, July. *v. v.*

- β. *A. foliis subsetaceis.* *Mich. fl. amer.* 1. p. 61.

ambigua.

In Canada. +. Appears to be only a variety of *A. cespitosa*.

9. *A. panicula patente trichotoma: pedunculis flexuosis, aristis geniculatis, foliis setaceis, culmo subnudo.—*
Willd. sp. pl. 1. p. 378.

flexuosa.

Icon. *Host. gram.* 2. t. 43. *Engl. bot.* 1519. *Fl. dan.* 157.

In shady woods and meadows: Canada to Carolina. ¶. July. *v. v.*

10. *A. panicula sparsa purpurea, floribus aristatis, glumis altera bifida nervo aristata: altera integra plumosa concava, foliis subulatis, culmo erecto.—**Walt. fl. car.* 78.

purpurea.

In Carolina. *Walt. r.* +.

90. MELICA. *Gen. pl.* 113.

1. *M. panicula laxa pauciflora: ramulis simplicibus, floribus obtusis imberbibus, caule erecto glabro.—**Mich. fl. amer.* 1. p. 62.

glabra.

M. mutica. *Walt. fl. car.* 78.

Icon. *Moris. hist.* 3. s. 8. t. 7. f. 51.

In shady places: Virginia to Florida. ¶. July. *v. s.*

2. *M. panicula diffusa ramosissima, floribus acutis imberbibus, caule erecto pubescente.*

diffusa.

M. altissima. *Walt. fl. car.* 78.

In sandy swamps: Virginia and Carolina. ¶. June. *v. s.*

91. HOLCUS. *Gen. pl.* 1565.

- striatus.* 1. *H. panicula conferta oblonga; pedunculis brevissimis confertis ramosis, glumis bifloris striatis muticis acuminatis, foliis planis longis.*—*Willd. sp. pl.* 4. p. 935.
In swamps of Virginia. *Clayt.* +. This species appears to belong to *Aira*.
- fragrans.* 2. *H. panicula patula, glumis trifloris muticis, flosculis contertis, hermaphrodito intermedio diandro glabro, masculis triandris, valvula exteriore levissime ciliata, dorso lævibus.* *Willd. sp. pl.* 4. p. 936.
H. odoratus. *Mich. fl. amer.* 1. p. 56.
In low meadows on the borders of lakes: Canada to Virginia. *Ÿ.* July. *v. v.* A very fine grass.
- lanatus.* 3. *H. glumis bifloris, hermaphrodito mutico, masculi aristata flore multo brevior recurva.* *Willd. sp. pl.* 4. p. 933.
Icon *Host. gram.* 1. t. 2. *Schreb. gram.* t. 20. f. 1.
In low meadows, frequent. *Ÿ.* June, July. *v. v.*

92. SORGHUM. *Pers. ench.* 1. p. 101. Broom-grass.

- saccharatum.* 1. *S. panicula subverticillata patentissima, seminibus ellipticis glumis villosis persistentibus tectis.* *Pers. ench.* 1. p. 101.
Icon. *Mich. in act. helv.* 8. t. 4. f. 1.
Cultivated for the purpose of making brooms, and frequently found in an apparently wild state. *⊙.* July. *v. v.*

93. POA. *Gen. pl.* 114. Meadow-grass.

- trivialis.* 1. *P. panicula diffusa, spiculis trifloris, glumis lanceolatis quinquenervibus basi villo connexis, ligula elongata.* *Smith fl. brit.* 1. p. 103. *Willd. sp. pl.* 1. p. 387.
Icon. *Host. gram.* 2. t. 62 *Engl. bot.* t. 1072.
Common in meadows and fields. *Ÿ.* June—Aug. *v. v.*
- pratensis.* 2. *P. panicula diffusa, spiculis quadrifloris, glumis lanceolatis quinquenervibus villo connexis, ligula abbreviata obtusa.* *Smith fl. brit.* 1. p. 104. *Willd. sp. pl.* 1. p. 388.
Icon. *Host. gram.* 2. t. 61. *Engl. bot.* t. 1073.
In grassy fields, not so frequent. *Ÿ.* May, June. *v. v.*

3. *P. panicula diffusa*, spiculis ovatis subquadrifloris, glumis lanceolatis trinervibus, ligula brevi truncata. *Schreb. gram.*
In all meadows and grass plots, common. 24. June—Aug. *v. v.*
4. *P. panicula foliisque attenuatis*, spiculis lanceolatis subtrifloris, glumis acutis obsolete quinquenervibus, ligula brevissima crenata. *Smith fl. brit. 1. p. 106.*
Icon. *Host. gram. 2. t. 71. Engl. bot. 1265.*
In grassy shady places, rare. 24. June, July. *v. v.*
5. *P. panicula divaricata*, spiculis ovatis, flosculis remotiusculis quinquenervibus liberis, culmi obliquo compresso. *Smith fl. brit. 1. p. 105. Willd. sp. pl. 1. p. 390.*
Icon. *Host. gram. 2. t. 64. Leers fl. herb. t. 6. f. 1.*
In fields and grass plots, frequent. ☉. April—Sept. *v. v.*
6. *P. panicula diffusa*, spiculis quadrifloris cordatis, glumis ovatis subfalcatis liberis, ligulis inferioribus brevissimis. *Smith fl. brit. 1. p. 100. Willd. sp. pl. 1. p. 385.*
Icon. *Engl. bot. 1003. Scheuchz. gram. t. 3.*
On the Allegany mountains, frequent. 24. July. *v. v.*
7. *P. panicula diffusa*, spiculis ovato-oblongis nitidis. *Willd. sp. pl. 1. p. 390.*
In Pennsylvania and Virginia. 24. *v. s. in Herb. Walter.*
8. *P. panicula secunda coarctata*, culmo adscendente compresso, flosculis angulosis basi villo complicato connexis. *Smith fl. brit. 1. p. 99. Willd. sp. pl. 1. p. 397.*
Icon. *Host. gram. 2. t. 70. Engl. bot. 355. Blue-grass.*
In dry fields and meadows, common. 24. June—Aug. *v. v.*
9. *P. panicula æquali diffusa*, spiculis ovatis quinquefloris, floribus liberis septemnervibus obtusis, culmo sulcato subangulato, radice subrepente. *Willd. enum. 105. Willd. sp. pl. 1. p. 389.*
P. striata. Mich. fl. amer. 1. p. 69.
P. lineata. Pers. ench. 1. p. 89.
In meadows and fields, common. 24. June—Aug. *v. v.*
10. *P. panicula laxa patentissima capillari*, spiculis tri-quinquefloris, floribus ovatis acutis pubescentibus, foliis collo pilosis, culmo ramosissimo.—*Willd. sp. pl. 1. p. 394.*
Icon. *Moris. hist. 3. s. 8 t. 6. f. 33.*
In fields and sandy woods: Canada to Florida, common. ☉. June—Aug. *v. v.* Very variable.

viridis.

nemoralis.

annua.

alpina.

flava.

compressa.

nervata.

capillaris.

- tenella.* 11. *P. panicula* subverticillata capillari, pedunculis flexuosis, spiculis linearibus subsextifloris pedicellatis, floribus oblongis acutis minutis glabris, foliis brevibus planis apice subulatis glabris, vaginis collo barbatis culmo decumbente.
P. tenella. Willd. *sp. pl.* 1. p. 395?
 In sandy fields: New Jersey to Carolina. ☉. July. *v. v.*;
v. s. in *Herb. Lambert. sub nomine P. pilosæ.*
- crocata.* 12. *P. panicula* laxa patula, spiculis ovatis quadri-quinquefloris pedicellatis, floribus oblongis subpubescentibus, foliis glabris, vaginis collo nudo, culmo erecto glabro.
Mich. fl. amer. 1. p. 68.
 In Canada, Hudson's Bay, and Lake Mistassins. *Michaux.* +.
- hirsuta.* 13. *P. panicula* ramosissima capillari, spiculis sparsis longe pedicellatis subquinquefloris, floribus oblongis acutis glabris, foliis culmo longioribus glabris, vaginis hirsutissimis, culmo erecto crasso. *Mich. fl. amer.* 1. p. 68.
 In sandy fields: New Jersey to Carolina, frequent. ☉. July. *v. v.*
- aquatica.* 14. *P. panicula* erecta semiverticillata: ramulis flexuosis, spiculis ovatis quinquefloris crassis, floribus obtusis glabris septemnervibus, culmo erecto glabro tereti.
P. aquatica. Willd. *sp. pl.* 1. p. 385?
 In ditches, frequently in salt-marshes: Canada to Virginia. ♀. June—Aug. *v. v.* It approaches *P. aquatica* very nearly, but seems to differ in *habitus* and other characters considerably.
- parviflora.* 15. *P. panicula* diffusa capillari semiverticillata ramosissima spiculis parvis subquadrifloris, floribus oblongis subacutis exquisite striatis, foliis distichis culmum superantibus glabris, ligulis lanceolatis acuminatis, culmo exerto vaginato.
P. striata. Lam. *encycl.* 5. p. 84?
 In close copses and shady places: New York to Virginia. ♀. July. *v. v.* About a foot high; very slender.
- subverticillata.* 16. *P. panicula* laxa basi subverticillata, pedicellis elongatis, spiculis raris subquinquefloris, calycibus crassiusculis subangulatis obtusis. *Pers. ench.* 1. p. 94.
P. laxa. Lam. *illustr.* 1. p. 183.
 In Virginia. *Lamarck.* +.
- Eragrostis.* 17. *P. panicula* patente pyramidata, ramulis divaricatis, spiculis linearibus decemfloris, floribus ovatis acutis tri-

nervibus glabris, foliis brevibus.—*Willd. sp. pl.* 1. p. 392

Icon. *Hort. gram.* 2. t. 69?

In low sandy grass fields: Virginia, Carolina, &c. 4. June, July. v. v. The spikes are of a greenish colour and long.

18. *P. panicula erecta*: ramis inferioribus inferne nudis, spiculis oblongis alternis subsessilibus sexfloris, flosculorum valva exteriore dorso inferne marginibusque villosa apice quinquefida, vaginarum collo axillisque paniculæ pilosis, foliis culmoque erecto glabris. *quinquefida.*

P. seslerioides. *Mich. fl. amer.* 1. p. 68.

In mountain meadows, frequent. New England to Carolina. Commonly called *Red-top*. 4. July, Aug. v. v. A most excellent grass. I have seen mountain meadows in Pennsylvania, where they mow this grass twice a year, producing most excellent crops each time, without manure, or any other trouble than the mowing, lasting for the space of sixteen years, without the least decline in the crops, the soil at the same time being a very indifferent one.

19. *P. panicula laxa patula erecta*, spiculis linearibus duodecimfloris: rachi deflorata valvulis flosculorum interioribus persistentibus pectinata, floribus ovatis acuminatis trinerviis, vaginarum collo axillisque paniculæ pilosis, foliis culmoque erecto glabris.—*Mich. fl. amer.* 1. p. 69. *pectinacea.*

In sandy fields: New Jersey to Carolina, and the western territories, frequent. ☉. July. v. v.

20. *P. panicula divaricata ramosissima*, spiculis pendulis linearibus decemfloris, floribus ovatis acutis margine dorsoque scabris, vaginarum collo axillisque paniculæ pilosis, foliis culmoque erecto brevi glabris. *spectabilis.*

Poa amabilis. *Walt. fl. car.* 80.

In dry barren sand-fields: New York to Carolina. ☉. July. v. v. A beautiful grass: the large panicle is purple mixed with green stripes.

21. *P. paniculis fasciculatis*, spiculis subsessilibus longissimis multifloris, floribus oblongis acutis laxis, foliis brevibus pubescentibus, culmo ramoso repente.—*Mich. fl. amer.* 1. p. 69. *reptans.*

P. hypnoides. *Lam. encycl.* 5. p. 87.

Icon. *Mich. l. c. t.* 11.

In mossy swamps and shady places: Pennsylvania, Vir-

ginia, and on the banks of the Mississippi. ☉. July.
v. v. This is the most delicate grass in North America.

94. BRIZA. *Gen. pl.* 115.

- Eragrostis*. 1. *B. spiculis ovali-lanceolatis vigintifloris, floribus subacutis, collo vaginarum piloso, culmo geniculato decumbente. Mich. fl. amer. 1. p. 72. Willd. sp. pl. 1. p. 405.*
B. caroliniana. Walt. fl. car. 79.
Icon. *Schreb. gram. 2. t. 39.*
In wet fields and swamps : Virginia to Carolina. ☉. June.
v. v.
- canadensis*. 2. *B. panicula laxa, spiculis erectis 4—10-floris, gluma communi parvula, florum valva exteriori acuta ovata, foliis longis, culmo erecto. Mich. fl. amer. 1. p. 71.*
In Canada. *Michaux. +.*
- virens*. 3. *B. spiculis ovatis, calyce flosculis (7) æquali, pedunculis longis. Walt. fl. car. 79.*
In Carolina. *Walter. +.*

95. UNIOLA. *Gen. pl.* 116.

- latifolia*. 1. *U. panicula laxa, spiculis omnibus longe pedicellatis, calyce trivalvi, floribus monandris subfalcatis carina pilosis, foliis latis planis. Mich. fl. amer. 1. p. 70.*
On the Allegany mountains, in shady woods, among rocks, ♀. June. v. v. A very handsome grass.
- paniculata*. 2. *U. panicula longa, spiculis subsessilibus, calyce multivalvi, floribus triandris carina glabris, foliis convolutis, culmo altissimo.—Willd. sp. pl. 1. p. 406.*
U. maritima. Mich. fl. amer. 1. p. 71.
Icon. *Catesb. car. 1. t. 32. Pluk. alm. t. 32. f. 6.*
On sandy sea-shores : Virginia to Florida. ♀. June, July. v. v.
- gracilis*. 3. *U. panicula longissima subspicata, ramis brevibus adpressis, spiculis subsessilibus, floribus monandris divaricatis acuminatis glabris, calyce trivalvi, foliis planiusculis, vaginis culmoque glabris compressis.—Mich. fl. amer. 1. p. 71.*
U. virgata. Bartram. in Herb. Banks.
Holcus laxus. Willd. sp. pl. 4. p. 934.
In shady rocky situations : Virginia to Georgia. ♀. July.
v. v.

96. FESTUCA. *Gen. pl.* 119.

1. *F. spiculis alternis sessilibus erectis subquinquefloris, floribus subulatis glabriusculis, aristis longis scabris, foliis linearibus culmoque glabris.* *spicata.*
On the waters of the Missouri and Columbia rivers. June. *v. s. in Herb. Lewis.*
2. *F. panicula simplicissima secunda, spiculis subnovemfloris aristatis, foliis lineari-setaceis, ligula baurita, culmo superne tetragono, basi ramosa.* *Willd. enum.* 113. *Willd. sp. pl.* 1. p. 419. *tenella.*
F. bromoides. Mich. fl. amer. 1. p. 66.
F. octoflora. Walt. fl. car. 81.
Common in sandy fields. ☉. May—July. *v. v.*
3. *F. panicula coarctata simplici, spiculis subquadrifloris, floribus subulatis aristatis, culmo foliisque tenuissime setaceis.*—*Mich. fl. amer.* 1. p. 66. *Myurus.*
F. quadriflora. Walt. fl. car. 81.
In dry fields : Virginia and Carolina. ☉. June. *v. v.*
Appears to be different from *F. Myurus* of Linnæus.
4. *F. panicula secunda diffusa, flosculis aristatis, culmo tereti, foliis caulinis planis, radice fibrosa.* *Smith fl. brit.* 1. p. 115. *Willd. sp. pl.* 1. p. 421. *duriuscula.*
Icon. Host. gram. 2. t. 83. *Engl. bot.* 470.
In dry pastures, frequent. ♀. July. *v. v.*
5. *F. panicula subdiffusa nutante ramosissima laxa, spiculis ovato-lanceolatis acutis, flosculis cylindricis obsolete nervosis.* *Smith fl. amer.* 1. p. 124. *Willd. sp. pl.* 1. p. 425. *elatior.*
Icon. Host. gram. 2. t. 79. *Engl. bot.* 1593.
In wet meadows : Pensylvania, New England, &c. introduced with grass seeds from Europe. ♀. July. *v. v.*
6. *F. panicula elongata, ramis approximatis strictis, spiculis oblongis 8—10-floris adpressis aristatis.* *Willd. enum.* 117. *Mich. fl. amer.* 1. p. 66. *polystachya.*
In dry meadows : Virginia and Carolina mountains, Illinois, &c. ♀. July. *v. v.*
7. *F. panicula stricte contracta, ramis simplicibus sparsis, spiculis tereti-lanceolatis subquinquefloris, floribus acuminatis diandris, foliis latis planis, caule erecto asperimo.* *Mich. fl. amer.* 1. p. 67. *diandra.*
Icon. Mich. fl. amer. 1. t. 10.

In shady woods, in the western parts: Kentucky, Tennessee, &c. ♀ July. v. v.

- grandiflora*. 8. *F. panicula simplici erecta, spiculis perpaucis subsemp-
ternifloris, flosculis acutis distantibus. Lam. illustr. 1.
p. 191.*

In Carolina. *Fraser. +.*

- fluitans*. 9. *F. panicula longa laxa, ramis simplicibus, spiculis ad-
pressis tereti-linearibus multifloris, flosculis muticis
striatis, culmo decumbente foliisque glaberrimis.—
Willd. sp. pl. 1. p. 425.*

Icon. *Host. gram. 2. t. 77. Engl. bot. 1520.*

In ditches and slow-flowing waters, frequent. ♀. June
—Aug. v. v.

- distichiphyl-
la*. 10. *F. panicula racemoso-coarctata, spiculis approximatis
adpressis subsemp-ternifloris muticis, foliis convolutis-subula-
tis rigidis alternis distichis, culmo erecto glabro.—
Michx. fl. amer. 1. p. 167.*

F. triticea. Lam. illustr. 1. p. 190.

Uniola spicata. Willd. sp. pl. 1. p. 406.

Icon. *Pluk. alm. t. 33. f. 4?*

In salt meadows, common along the coast from Canada
to Florida. ♀. July, Aug. v. v.

- poæoides*. 11. *F. panicula subconferta, ramis inferioribus simplicibus,
spiculis alternis oblongis subsessilibus muticis, foliis
planis glaberrimis.— Michx. fl. amer. 1. p. 67.*

On the banks of the river St. Laurence. ♀. +.

12. *F. panicula nutante patula, spiculis oblongo-lanceolatis
compressis octofloris muticis, foliorum vaginis apice
barbatis, radice fibrosa. Willd. enum. 115.*

Icon. *Willd. hort. ber. t. 3.*

In rich bottom lands: Pennsylvania to Carolina. ♀. July,
Aug. v. v.

- nutans*. 13. *F. paniculæ ramis secundis nutantibus scabris, spiculis
ovatis compressis subsemp-ternifloris, spiculis acutis muticis,
foliis lineari-lanceolatis. Willd. enum. 116.*

In shady woods: New England to Carolina. ♀. July.
v. v.

97. DACTYLIS. *Gen. pl. 117. Orchard-grass.*

- glomerata*. 1. *D. panicula secunda glomerata. Willd. sp. pl. 1. p. 403.*

Icon. *Host. gram. 2. t. 94. Schreb. gram. t. 8 f. 2.*

In meadows and woods: Pennsylvania, &c. Probably ori-
ginally brought from Europe. ♀. June. v. v.

98. BROMUS. *Gen. pl.* 120.

1. *B. panicula nutante, spiculis ovatis compressis, glumis nudis distinctis, aristis subulatis brevioribus flexuosorectis.* *Willd. sp. pl.* 1. p. 428. *secalinus.*
Icon Host. gram. 1. t. 12.
 In rye- and wheat-fields, frequent; introduced from Europe. ☉. July. *v. v.*
2. *B. panicula erecta coarctata, pedunculis ramosis, spiculis ovatis, flosculis umbriatis depressis nervosis pubescentibus.* *Sm. fl. brit.* 1. p. 122. *Willd. sp. pl.* 1. p. 429. *mollis.*
Icon Host. gram. 1. t. 19. *Engl. bot.* 1078.
 In dry fields and pastures; probably from Europe. ♂. June. *v. v.*
3. *B. panicula nutante, spiculis lanceolatis teretibus, flosculis aristatis pilosis, aristis erectis, foliis utrinque glabris, vaginis pilosis.* *Willd. enum.* 120. *Willd. sp. pl.* 1. p. 431. *purgans.*
 In old fields and on road-sides: Canada to New England. ♀. May–Aug. *v. v.*
4. *B. panicula nutante, spiculis oblongis compressis 6–8-floris, flosculis aristatis, nungine ciliato-villosis, foliis utrinque vaginisque subpilosis, culmo ad nodos barbato.*—*Willd. sp. pl.* 1. p. 433. *ciliatus.*
B. canadensis. *Mich. fl. amer.* 1. p. 65?
 In barren and sandy soil: Canada to Carolina. ♀. July. *v. v.*

99 KOELERIA. *Pers. ench.* 1. p. 97.

1. *K. spica laxiuscula, spiculis divergentibus 3–4-floris subaristatis rugulosis carina subciliatis.* *Pers. l. c.* *cristata.*
Aira cristata. *Sp. pl.* 2. p. 24.
Pea cristata. *Willd. sp. pl.* 1. p. 402.
Icon. Monis. hist. 3. s. 8. t. 4. f. 7.
 On the plains of Columbia river. *M. Lewis.* ♀. July. *v. s. in Herb. Lewis.*

100. AVENA. *Gen. pl.* 122. Oats.

1. *A. panicula attenuata, calycibus bifloris, seminibus villosis, aristis calyce duplo longioribus.* *Willd. sp. pl.* 1. p. 445. *pensylvanica.*
 In fields and open woods: New England to Carolina, frequent. ☉. June. *v. v.*

- palustris*. 2. *A. panicula conferta*, calycibus bifloris, floribus glabris : altero mutico, altero tenuissimè aristato, foliis planis linearibus. *Mich. fl. amer.* 1. p. 72.
A. caroliniana. *Walt. fl. car.* 81.
 In low grassy fields and woods : Virginia to Florida. $\mathcal{U}$.
 May—July. *v. v.*
- striata*. 3. *A. panicula coarctata rariflora*, calycibus quinquefloris, floribus calyce longioribus subimberbibus, valva exteriore striata, dorso longe aristata : semine nudo. *Mich. fl. amer.* 1. p. 73.
 On the mountains near Hudson's Bay. *Michaux.* +.
- mollis*. 4. *A. racemo confertiuscule adpresso-spicato*, calycibus bifloris, floribus imberbibus aristatis : aristis longitudine florum strictis, foliis culmoque molliter pubescentibus. —*Mich. fl. amer.* 1. p. 72.
 In Canada. *Michaux.* +.
- spicata*. 5. *A. panicula subspicata pauciflora*, calycibus spiculis sexfloris pubescentibus longioribus, valva exteriore ex apice bicorni aristata : arista basi spirali, foliis subscateis collo villosis.—*Willd. sp. pl.* 1. p. 453.
A. glumosa. *Mich. fl. amer.* 1. p. 72.
 On dry hills, on the banks of rivers : New England to Carolina. $\mathcal{U}$. June—Aug. *v. v.*

101. ARUNDO. *Gen. pl.* 124. Reed.

- Phragmites*. 1. *A. calycibus quinquefloris*, panicula laxa. *Willd. sp. pl.* 1. p. 454.
Icon. Engl. bot. 401. *Leers. herb. t.* 7. f. 1.
 On the banks of rivers and in large salt-marshes : Canada to Virginia, common. $\mathcal{U}$. July. *v. v.*
- airoides*. 2. *A. panicula subcoarctata incurva*, calycibus bifloris glabris inæqualibus, corollis membranaceis longitudine calycis, pilis corollam æquantibus, foliis planis scabris. —*Lam. encycl.* 6. p. 270.
 In North America. *Michaux.* $\mathcal{U}$. +.
- agrostoides*. 3. *A. panicula laxa diffusa*, calycibus unifloris acuminatis glabris, corollis calyce brevioribus membranaceis, valva exteriore apice incisa, dorso brevissima aristata, interiore minima, pilis corollam æquantibus, foliis planis scabriusculis, culmis vaginisque glabris.
 In bogs of New Jersey and Pensylvania. $\mathcal{U}$. July. *v. v.*
- canadensis*. 4. *A. panicula oblonga*, calycibus unifloris lanceolatis carina scabris pubescentibus, corollis dorso aristatis :

arista longitudine corollæ, pilis corollam æquantibus, foliis culmisque glabris angustis.—*Mich. fl. amer.* 1. p. 73.

On mountain meadows: Canada to Carolina. 24. July.
v. v. Resembles *A. Calamagrostis* very much.

5. *A. panicula patente*, calycibus unifloris acuminatis, pilis corollam æquantibus, arista dorsali geniculata calycem excedente. *Willd. enum.* p. 127.

confinis.

In North America. *Willdenow.* +.

6. *A. panicula spicata*, calycibus unifloris corolla longioribus, floribus erectis muticis, foliis involutis pungentibus. *Smith fl. brit.* 1. p. 148.

arenaria.

Icon. *Fl. dan.* 917.

On the sea-coast: Canada to New England. 24. July.
v. v.

102. ELEUSINE. *Gært. de fr. et sem.* 1. p. 7.

1. *E. glabra*; vaginis compressis, collo pilosis: spicis digitatis strictis longo-linearibus rectis, spiculis subsexflo-
ris, floribus lanceolatis. *Mich. fl. amer.* 1. p. 64.

indica.

In sandy cultivated grounds: New Jersey to Florida.
☉. June—Aug. v. v. In Virginia it is known by the name of *Wire-grass*, as a weed very noxious to the cultivator.

2. *E. vaginis pilosis*, spicis numerosis filiformibus paniculatis, spiculis minutissimis, calyce mucronato quadri-
floro, floribus muticis. *Mich. fl. amer.* 1. p. 65.

mucronata.

In cultivated fields: Virginia, Carolina, Illinois, &c.
☉: June, July. v. v.

103. CHLORIS. *Swartz. fl. ind.* 1. p. 189.

1. *C. spica unica*, spiculis subsexflo-
ris, floribus aristatis margine barbatis, glumis calycis exteriore scrobiculato-
glandulosa dorso aristata. *Mich. fl. amer.* 1. p. 59.

monostachya.

Aegilops aromaticum. *Walt. fl. car.* 249.

In woods and cultivated fields: Virginia to Florida. ☉
July. v. v. The spike of this grass is most singularly beautiful.

2. *C. spicis 4—6. strictis erectis*, flosculis imbricatis sub-
glabris muticis, glumis calycis exteriore aristata, cul-
mo compresso glaberrimo. *Swartz. fl. ind.* 1. p. 194.

petræa.

Cynosurus paspaloides. *Vahl. symb.* 1. p. 21.

Agrostis complanata. *Ait. kew.* 1. p. 96.

Icon. *Vahl. l. c. t.* 27.

On the gravelly sea shores of Georgia and Florida. ☉.
June. *v. v.*

- mucronata.* 3. *C. culmo repente*, spicis plerumque 4. rachi triangulari mucronata, spicis subquadrifloris, gluma exteriore aristata.—*Mich. fl. amer.* 1. p. 59.
Aegilops saccharinum. Walt fl. car. 249.
Icon. *Pluk. alm.* t. 300 f. 8. *Wire-grass.*
In cultivated grounds: Virginia to Georgia. ☉. June.
v. v.
- curtipendula.* 4. *C. culmo adscendente racemoso*, spiculis plurimis brevibus distichis alternis pendulis sexfloris, calycibus quadrifloris. — *Mich. fl. amer.* 1. p. 59.
In dry situations in the western parts of America, Illinois, &c. *Michaux.* 4. +.

104. ROTTBOELLIA. *Gen. pl.* 1572.

- dimidiata.* 1. *R. spica dimidiata compressa lineari*, latere exteriore aggregato-florescens, interiori lævi nudo, vaginis compressis, culmo decumbente. *Willd. sp. pl.* 1. p. 466.
Ischaemum secundum. Walt fl. car. 249
On the sea-shores of Carolina and Florida. *v. s. in Herb. Walter.*

105. TRIPSACUM. *Gen. pl.* 1134.

- dactyloides.* 1. *T. spicis subternis aggregatis superne masculis inferne femineis.* *Willd. sp. pl.* 4. p. 201.
Ischaemum glabrum. Walt fl. car. 249.
Icon. *Pluk alm.* t. 190. f. 2.
On the banks of rivers and along the sea-shore: Virginia, Carolina, Illinois. 4. Aug. *v. v.*
- monostachyon.* 2. *T. spica solitaria superne mascula inferne feminea.* *Willd. sp. pl.* 4. p. 202.
Icon. *Willd. hort. ber.* 1. t. 1.
In salt meadows and ditches: New York to Carolina. 4. Aug. *v. v.* Not sufficiently distinct from the former.
- cylindricum.* 3. *T. spica solitaria hermaphrodita cylindrica*, spiculis contiguis in articulos secedentibus. *Willd. sp. pl.* 4. p. 202. *Mich. fl. amer.* 1. p. 60.
In sandy barren fields in Florida. *Michaux.* +.

106. ELYMUS. *Gen. pl.* 128. Wild Rye.

1. *E. spica pendula patula, spiculis sexfloris aristatis.* *Willd. enum.* 131. *Willd. sp. pl.* 1. p. 498. *philadelphicus.*
In shady woods: Canada and New York. ♀. July. v. v.
2. *E. spica nutante patula, spiculis sexfloris aristatis, inferioribus ternatis, superioribus binatis.* *Willd. enum.* 131. *Willd. sp. pl.* 1. p. 498. *canadensis.*
In rocky situations: Canada, &c. ♀. July. +.
3. *E. spica nutante patula, spiculis sexfloris aristatis geminatis, foliis subtus glaucis.* *Willd. enum.* 131. *glaucifolius.*
In the mountains of Virginia, Pennsylvania, &c. ♀. July. v. v.
4. *E. spica erecta, spiculis trifloris aristatis villosis ternatis, calycibus aristatis spiculis superantibus.* *Willd. enum.* 131. *villosus.*
In dry rocky soil: Pennsylvania, Virginia, &c. ♀. June. v. v.
5. *E. spica erecta, spiculis trifloris aristatis glabris geminatis, calycibus lanceolatis nervosis spiculis æquantibus.* *Willd. enum.* 131. *Willd. sp. pl.* 1. p. 499. *virginicus.*
In the mountains very common. ♀. May—July. v. v.
6. *E. spica erecta, spiculis bifloris aristatis hispidis geminatis, calycibus linearibus nervosis aristatis spiculis fere superantibus, foliis vaginisque glabris.* *Willd. enum.* 131. *Willd. sp. pl.* 1. p. 470. *striatus.*
In shady situations: Pennsylvania, Virginia, &c. ♀. June. v. v.

107. HORDEUM. *Gen. pl.* 129. Barley.

1. *H. flosculis omnibus hermaphroditis aristatis, ordinibus duobus erectioribus.* *Willd. sp. pl.* 1. p. 472. *vulgare.*
Icon. Hort. gram. 3. t. 34.
In fields and hedge-rows, apparently in a wild state; introduced from Europe. ☉. July. v. v.
2. *H. aristis involucriisque setaceis longissimis.* *Willd. sp. pl.* 1. p. 476. *excl. synonym.* *Hort. kew. ed.* 2. p. 180. *jubatum.*
On the islands of the Missouri river. *M. Lewis.* ♂. July. v. s. in *Hort. Lewis. et Lambert.* This species I considered at first a new one; but on examination of the specimens in the Herbarium of A. B. Lambert, Esq., I found it to be the same as the *H. jubatum* of the Hortus Kewensis.

108. SECALE. *Gen. pl.* 127. Rye.*cereale.*

1. *S. glumarum ciliis scabris. Willd. sp. pl.* 1. *p.* 471.
 Icon *Host. gram.* 2. *t.* 48.
 Frequently found apparently in a wild state. ♂. June.
v. v.

109. TRITICUM. *Gen. pl.* 130. Wheat.*æstivum.*

1. *T. calycibus quadrifloris ventricosus glabris imbricatis
 aristatis. Willd. sp. pl.* 1. *p.* 470.
 Icon. *Host. gram.* 3. *t.* 26.
 In corn-fields; introduced from Europe. ☉. June. *v. v.*

III. TRIGYNIA.

110. HOLOSTEUM. *Gen. pl.* 136.*succulentum.*

1. *H. foliis ellipticis carnosis, petalis subtrifidis calyce mino-
 ribus.—Willd. sp. pl.* 1. *p.* 489.
Polycarpon uniflorum. Walt. fl. car. 83.
 A doubtful plant, which I never have been able to find,
 either in New York or Carolina.

111. POLYCARPON. *Gen. pl.* 138.*stipulifidum.*

1. *P. erectum ramosissimum, ramis setaceis, foliis (radica-
 libus) spathulatis, floribus terminalibus fasciculatis,
 stipulis setaceo-multifidis Pers. ench.* 1. *p.* 111.
Stipulicida setacea. Mich. fl. amer. 1. *p.* 26.
 Icon. *Mich. l. c.* *t.* 6.
 In barren gravelly soil of Lower Carolina. ☉. May,
 June. *v. s. in Herb. Lyon.* The style is so very short,
 that it scarcely can be called monogynous.

112. LECHEA. *Gen. pl.* 142.*major.*

1. *L. undique hirsuta: foliis oblongo-lanceolatis mucrona-
 tis, panicula foliosa pyramidata: ramis apice floriferis,
 floribus fasciculato-racemosis secundis brevissime pe-
 dicellatis, caule erecto.—Willd. sp. pl.* 1. *p.* 495.
L. minor Linnæi. Smith in encyclop. ed. nov.
 On sandy barren soil: Canada to Florida. ♀. July,
 Aug. *v. v.* I have frequently observed from three to
 nine stamina in this species, which I suppose is the
 case with the following one likewise.

2. *L. glabriuscula*; foliis lineari-lanceolatis acutis, panicula foliosa, ramis elongatis undique floriferis, floribus brevi-pedicellatis, caule assurgente.—*Willd. sp. pl.* 1. p. 495.
Icon. Lam. illustr. t. 52. f. 1.
 On dry gravelly hills: Canada to Pennsylvania. $\mathcal{A}$. July, Aug. *v. v.* Lower in growth and larger in fruit than No. 1. *minor.*
3. *L. undique adpresso-pubescens*; foliis linearibus acutis ciliatis, panicula gracilis ramosissima pyramidata, ramulis nudiusculis, floribus parvis alternis pedicellatis, caule erecto.—*Mich. fl. amer.* 1. p. 77.
 In sandy fields: New Jersey to Carolina. $\mathcal{A}$. July. *v. v.* *racemulosa.*
4. *L. undique adpresso-cano-villosa*; foliis linearibus acutis, panicula foliosa elongata: ramis brevibus, floribus fasciculatis lateralibus terminalibusque, pedicellis brevissimis, floribus parvis cano-tomentosis, caule erecto.
L. thymifolia. Mich. fl. amer. 1. p. 77?
 In barren dry woods, on slate hills: Virginia, &c. $\mathcal{A}$. July. *v. v.* The lower branches, which in most species of this genus trail on the ground, have a great resemblance to *Thymus Serpyllum*. *thymifolia.*
5. *L. sparse pilosa*; foliis angustissimis, panicula divaricata nudiuscula, ramulis alternis, pedicellis elongatis divaricatis, caule erecto.—*Mich. fl. amer.* 1. p. 77.
 On dry gravelly hills: Virginia to Georgia. $\mathcal{A}$. May—July. *v. v.* The lower branches in this species have linear leaves, by which it is easily distinguished from the rest. *tenuifolia.*

113. ERIOCAULON. *Gen. pl.* 132.

1. *E. scapo decemstriato*, foliis ensiformibus glabris, capitulo magno depresso-globoso, squamis involucri ovalibus acutis, paleis receptaculi mucronatis.—*Mich. fl. amer.* 1. p. 165. *Willd. sp. pl.* 1. p. 485. *deccangulare.*
E. serotinum. Walt. fl. car. 83. *Lam. encycl.* 3. p. 276.
Icon. Pluk. amalth. t. 409. f. 5.
 In deep swamps: New Jersey to Carolina. $\mathcal{A}$. Aug. *v. v.* From three to four feet high.
2. *E. scapo subcompresso decemstriato*, foliis brevibus subulato-ensiformibus glabris: capitulo hemisphærice convexo, involucri squamis ovalibus rotundato-obtusis scariosis argenteo-lucidis. *Mich. fl. amer.* 1. p. 165. *gnaphalodes.*
E. decangulare. Walt. fl. car. 83.

E. compressum. *I am. encycl.* 3. p. 276.

In sandy mossy swamps: Virginia to Carolina. ♀. July.
v. v. About a foot high.

- pellucidum.* 3. *E. scapo tenuissime subseptemstriato, foliis subulato-linearibus capaliculatis glabris pelucidis quinquenerviis transverse striatis, capitulo parvo subgloboso, squamis involucri ovalibus obtusis.*—*Mich. fl. amer.* 1. p. 166.
In pools of water, floating: Canada to New Jersey.
♀. Aug. v. v. About a foot high; very slender.

- villosum.* 4. *E. scapis aggregatis compressis subquadrisulcis villosis, foliis brevibus subulato-linearibus pilosis, capitulo sphaeroides parvo, flosculis subtiliginosis.*—*Mich. fl. amer.* 1. p. 166.

E. anceps. *Walt. fl. car.* 83.

On the edges of ponds, in sandy soil: Virginia to Carolina. July. v. v; v. s. in *Herb. Walter.*

- flavidulum.* 5. *E. scapis aggregatis subseptemstriatis subpubescentibus, foliis brevibus subulato-ensiformibus nervosis, capitulo convexo, squamis involucri suborbiculatis, flosculis vix papillosis.*—*Mich. fl. amer.* 1. p. 166.
On the banks of rivers, below high-water mark: Pennsylvania to Carolina. ☉. July. v. v. From one to two inches high.

114. MOLLUGO. *Gen. pl.* 139.

- verticillata.* 1. *M. foliis verticillatis cuneiformibus acutis, caule subdiviso decumbente, pedunculis unifloris.* *Willd. sp. pl.* 1. p. 492.
Icon Pluk. mont. t. 332. f. 5. *Ehret. pict.* t. 6. f. 3.
In cultivated grounds: Canada to Georgia. ☉. May—Aug. v. v.

115. PROSERPINACA. *Gen. pl.* 134.

- palustris.* 1. *P. foliis lineari-lanceolatis serratis, infimis pinnatifidis.* *Lam. illustr.* 1. p. 214. *Willd. sp. pl.* 1. p. 488.
In ditches and pools: Canada to Carolina. ☉. July. v. v.
- pectinata.* 2. *P. foliis omnibus pectinato-pinnatifidis.* *Lam. illustr.* 1. p. 214.
P. palustris β. *Mich. fl. amer.* 1. p. 76.
In overflowed places and ditches: New Jersey to Carolina. ☉. July, Aug. v. v. This is certainly a distinct species, as I never found them growing promiscuously, or near one another.

IV. POLYGYNIA.

116. EMPETRUM. *Gen. pl.* Crake-berry.

1. *E. procumbens*; foliis oblongis obtusis margine revolutis. *Michx. fl. amer.* 2. p. 255. *Willd. sp. pl.* 4. p. 713.
Icon. Engl. bot. 526. *Fl. dan.* 975.

On rocks near the sea-coast in Canada. *Michaux.* 2.
 May, June. *v. s.* May be distinct from the European species.

nigrum.

IV. TETRANDRIA.

I. MONOGYNIA.

* *Flores monopetali, superi, monospermi.* Aggregatæ.

117. DIPSACUS. *Cal.* communis foliaceus. *Recept.* conicum, paleaceum. *Sem.* columnaria.
118. ALLIONIA. *Cal.* communis 5-fidus, 3-florus : proprius obsoletus, superus. *Corollulæ* irregulares. *Recept.* nudum.

** *Flores monopetali, monocarpi, inferi.*

119. LYCIUM. *Cor.* tubulosa, fauce clausa filamentorum barba. *Cal.* 4-fidus. *Bac.* 2-locularis, polysperma.
120. CALLICARPA. *Cor.* tubulosa. *Cal.* 4-fidus. *Bac.* 4-sperma.
121. CENTUNCULUS. *Cor.* rotata. *Cal.* 4-fidus. *Stam.* brevia. *Caps.* 1-locularis, circumscissa.
122. PLANTAGO. *Cor.* limbo reflexo. *Cal.* 4-fidus. *Stam.* longissima. *Caps.* 2-locularis, circumscissa.
123. POLYPREMUM. *Cor.* rotata, fauce barbata. *Cal.* 4-partitus. *Stam.* inclusa. *Caps.* 2-locularis, obcordata.
124. CENTAURELLA. *Cor.* urceolata. *Cal.* 4-partitus, adpressus. *Stigm.* crassum, glandulosum, subbifidum. *Caps.* 1-locularis, 2-valvis, calyce corollaque persistentibus involucrata.
125. EXACUM. *Cor.* subcampanulata. *Cal.* 4-phyllus. *Caps.* 2-locularis, compressa.
126. SWERTIA. *Cor.* rotata. *Nectariferi* pori ad basin laciniarum corollæ. *Caps.* oblonga 1-locularis, 2-valvis.
127. FRASERA. *Cor.* 4-fida, patens : petala medio glandula barbata. *Cal.* 4-fidus. *Caps.* compressa, submarginata, 1-locularis. *Sem.* pauca, imbricata, marginata.

*** *Flores monopetali, monocarpi, superi.*

128. MITCHELLA. *Cor.* binæ, infundibuliformes *Cal.* 4-dentatus. *Stigm.* 4-fidum. *Bacca* ex germinum coalitione didyma, 4-sperma.
129. OLDENLANDIA. *Cor.* tubulosa. *Cal.* 4-partitus. *Caps.* didyma, polysperma.

**** *Flores monopetali, dicocci, superi.*

130. RUBIA. *Cor.* campanulata. *Baccæ* 2., monospermæ.
131. GALIUM. *Cor.* plana. *Sem.* 2., subrotunda.
132. SPERMACOCE. *Cor.* tubulosa. *Sem.* 2., bidentata.
133. DIODIA. *Cor.* infundibuliformis. *Caps.* 4-gona, 2-locularis, 2 sperma.

***** *Flores monopetali, dicocci, inferi.*

134. HOUSTONIA. *Cor.* infundibuliformis. *Caps.* seminifera, subglobosa, emarginata, 2-locularis, 2-sperma.

***** *Flores tetropetali.*

135. AMMANNIA. *Cal.* inferus, tubulosus, 8-dentatus. *Caps.* 4-locularis.
136. PTELEA. *Cal.* inferus, 4-partitus. *Pet.* coriacea. *Stigm.* 2. *Samara* monosperma.
137. CORNUS. *Cal.* superus, 4-dentatus. *Drupa* nuce 2-biloculari.
138. LUDWIGIA. *Cal.* 4-partitus. *Caps.* 4-locularis, tetragona.

***** *Flores incompleti.*

139. ALCHEMILLA. *Cal.* inferus, 4-fidus. *Sem.* 1. calyce inclusum.
140. BOEHMERIA. *Cal.* inferus, 4-partitus, ♀. O. *Nectar.* O. *Sem.* 1. *Monoica.*
141. URTICA. *Cal.* inferus, 4-phyllus, ♂. 2-valvis. *Nectar.* cyathiforme. *Stigm.* villosum. *Sem.* 1. ovatum. *Monoica.*
142. PARIETARIA. *Cal.* inferus, 4-fidus. *Involucrum* multipartitum. *Sem.* 1. calyce sicco elongato tectum. *Polygamia.*
143. VISCUM. *Cal.* superus, 4-partitus. *Stigm.* capitatum. *Bacca* monosperma. *Dioicum.*
144. CEPHALANTHUS. *Cal.* superus, infundibuliformis. *Recept.* globosum, nudum. *Sem.* 1. lanuginosum.

145. ELÆAGRUS. *Cal.* basi persistens, superne coarctatus et quasi superus, campanulatus, 4-fidus. *Drupa* 1-sperma.
 146. HIPPOPHAE. *Cal.* deciduus, inferus, tubulosus, 2-fidus. *Bacca* globosa. *Dioica*.

II. DIGYNIA.

147. PLANERA. *Cal.* campanulatus, 4-fidus. *Cor.* 0. *Nux* 1-sperma, squamulosa. *Polygamia*.
 148. HAMAMELIS. *Cal.* 4 fidus, extus 2-squamosus. *Pet.* 4. longissima. *Nux* 2-locularis, 2-cornis.
 149. CUSCUTA. *Cal.* 4-fidus. *Cor.* ovata, 4-fida. *Caps.* 2-locularis circumscissa.
 150. SANGUISORBA. *Cal.* 2-phyllus, inferus. *Cor.* plana, 4-fida, supera. *Caps.* 4-gona, intra calycem et corollam.

III. TRIGYNIA.

151. PACHYSANDRA. *Cal.* 4-phyllus. *Cor.* 0. *Caps.* 3-locularis. *Monoica*.

IV. TETRAGYNIA.

152. ILEX. *Cal.* 4-dentatus. *Cor.* rotata. *Styl.* 0. *Bac.* 4-sperma.
 153. SAGINA. *Cal.* 4-phyllus. *Cor.* 4-petala. *Caps.* 4-locularis polysperma.
 154. POTAMOGETON. *Cal.* 4-phyllus. *Cor.* 0. *Sem.* 4. sessilia.
 155. RUPPIA. *Cal.* et *Cor.* 0. *Sem.* 4. pedicellata.

I. MONOGYNIA.

117. DIPSACUS. *Gen. pl.* 148.

sylvestris.

1. *D. foliis connatis sinuatis, paleis rectis, involucro capitulo brevioribus patentibus.*—*Willd. sp. pl.* 1. p. 544?
Icon. Jacq. fl. aust. 5. t. 403.
 On the edges of fields and on water sides: Pennsylvania to Virginia. ♂. July. v. v. Probably introduced from Europe, but sometimes found in very remote parts from cultivation.

118. ALLIONIA. *Gen. pl.* 151.

1. *A. caule erecto, foliis lato-cordatis acutis, glabris, pedunculis solitariis, calycibus fructiferis sub-hirsutis, involucrio ampliato multo minoribus.*—*Mich. fl. amer.* 1. p. 100. *nyctaginea.*

On the banks of the river Tennessee and its branches.
 24. July, Aug. *v. v.* Resembles *Mirabilis Jalapa* very much.

2. *A. caule diffuso, foliis lanceolatis scabriusculis ciliatis, pedunculis solitariis, involucrio subpentaphyllo: foliolis ovatis reticulato-venosis.*—*Walt. fl. car.* 84. *albida.*

In Lower Carolina. *Walter.* ☉. July. *v. s. in Herb. Walter.*

3. *A. caule diffuso dichotomo, foliis ovatis scabriusculis nudis, floribus terminalibus fasciculato-racemosis, involucrio semiquinquefido: laciniis subrotundis acutiusculis reticulato-venosis.* *ovata.*

On the plains of the Missouri. *M. Lewis.* ☉. Aug. *v. s. in Herb. Lewis.*

119. LYCIUM. *Gen. pl.* 343.

1. *L. inerme; foliis anguste spathulato-oblongis.* *Mich. fl. amer.* 1. p. 95. *Walt. fl. car.* 84. *carolinianum.*

L. salsum. Bartr. trav. 59.

In salt marshes of Carolina and Georgia. ♀. July. *v. v.*
 Flowers purple, the size of *L. barbarum*.

120. CALLICARPA. *Gen. pl.* 175.

1. *C. foliis ovalibus serratis subtus tomentosis, cymis sessilibus.*—*Willd. sp. pl.* 1. p. 619. *americana.*

Icon. *Catesb. car.* 2. t. 47. *Pluk. alm. t.* 136. f. 3.

In dry gravelly soil, below the mountains in Virginia and Carolina. ♀. June, July. *v. v.* Flowers red, in small axillary bunches; berries red, apparently in a whorl round the branches, hang on very long.

121. CENTUNCULUS. *Gen. pl.* 189.

1. *C. foliis deorsum angustatis: inferioribus ovalibus, superioribus lanceolatis, laciniis calycis subulatis, caule simplici.*—*Mich. fl. amer.* 1. p. 193. *lanceolatus.*

In wet barren fields: Lower Carolina, &c. ☉. May.

v. s. in Herb. Nuttall. A very small inconspicuous plant with axillary reddish flowers. The specimens of Mr. Nuttall's were collected on the Missouri, they are about four inches high : and according to his observations, very obligingly communicated to me, this species is generally pentandrous.

122. PLANTAGO. *Gen. pl.* 186.

data.

1. *P. foliis ovatis cordatis latissimis subdentatis glabris, spica longissima, floribus subimbricatis, inferioribus sparsis, bracteis ovatis obtusis.*—*Lam. encycl.* 5. p. 369.

P. kentuckensis. Mich. fl. amer. 1. p. 94.

P. canadensis. Hort. par.

On river sides : Canada, Kentucky, Tennessee, and other western parts. ½. June—Aug. *v. v.*

major.

2. *P. foliis ovatis subdentatis glabriusculis, scapo tereti, spica oblonga imbricata.* *Lam. encycl.* 5. p. 368. *Willd. sp. pl.* 1. p. 641.

Icon. *Engl. bot.* 1558. *Fl. dan.* 461.

In fields and on road sides, common. ½. May—Sept. *v. v.*

cucullata.

3. *P. foliis ovatis concavo-cucullatis novemnerviis subtus pubescentibus, spica cylindrica imbricata, scapo tereti alto.* *Lam. encycl.* 5. p. 370.

P. maxima. Jacq. ic. 1. t. 26. *Willd. sp. pl.* 1. p. 642.

Icon. *Jacq. l. c.*

In wet rocky situations : Canada and Province of Maine. ½. July, Aug. *v. v.*

lanceolata.

4. *P. foliis lanceolatis villosis, spica brevi cylindrica, bracteis ovatis acuminatis, scapo angulato adpresso piloso.* *P. lanceolata. Willd. sp. pl.* 1. p. 643 ?

In fields and pastures, common. ½. June—Aug. *v. v.* May be a new species. *P. lanceolata* of Europe, according to the specimens examined in the Herbarium of A. B. Lambert, Esq. is *bracteis oblongis acutis*.

virginica.

5. *P. undique canescenti-pubescentis ; foliis lanceolato-ovatis subdenticulatis, floribus remotis, scapo angulato.* *Willd. sp. pl.* 1. p. 643.

Icon. *Moris. hist.* 3. s. 8. t. 15. f. 8.

In dry barren fields, common : New England to Florida. ☉. ♂. May—Aug. *v. v.* There are a number of varieties in respect to size and pubescence.

caroliniana.

6. *P. undique glabra ; foliis lanceolatis integerrimis longis, floribus remotis, caule tereti.*—*Walt. fl. car.* 85.

P. angustifolia glabra, &c. *Clayt. fl. virg.* 753.

In sandy grassy woods: Virginia to Carolina. ♂. June, July. *v. v.*; *v. s.* in *Herb. Walter*.

7. *P. foliis ovato-lanceolatis integerrimis villosiusculis, spica longa gracili interrupta, floribus glabris.*—*Lam. encycl.* 5. p. 375. *interrupta.*

P. sparsiflora. *Mich. fl. amer.* 1. p. 94.

In shady woods: Virginia to Carolina. ♀. July, Aug. *v. v.*

8. *P. foliis lineari-lanceolatis integerrimis glabriusculis, scapo tereti foliis brevior, spica pauciflora interrupta, bracteis ovatis acutis glabris.* *pauciflora.*

On the sea-coast of New England and New Jersey. ♀. Aug. *v. v.* In the Herbarium of A. B. Lambert, Esq. are specimens from Labrador, agreeing in every respect with this species.

9. *P. undique argenteo-villosa; foliis lineari-lanceolatis integerrimis supra nudiisculis, scapis teretibus foliis vix longioribus, spica cylindrica imbricata, bracteis linearibus longissime ciliato-villosis.* *Lagopus.*

In dry situations on the banks of the Missouri. *Nuttall*. ♂. July. *v. s.* in *Herb. Nuttall*. This beautiful little plant is very variable in size.

10. *P. foliis carnosius subulato-linearibus basi pilosis, scapo tereti pubescente, spica cylindrica, bracteis obtusis.*—*Willd. sp. pl.* 1. p. 647. *maritima.*

Icon. *Engl. bot.* 175. *Fl. dan.* 243.

On the banks of rivers near the sea: Canada to New York. ♀. Aug. *v. v.*

11. *P. foliis subsetaceo-linearibus, spica oblongo-cylindrica, bracteis subulato-aristatis flore longioribus.* *Mich. fl. amer.* 1. p. 95. *aristata.*

In the natural meadows of Illinois. *Michaux.* +.

123. POLYPREMUM. *Gen. pl.* 178.

1. *P. polypremum.* *Willd. sp. pl.* 1. p. 623. *procumbens.*

Icon. *Lam. illustr.* 1. t. 71.

In dry pastures: Virginia to Georgia. ♂. May—Aug. *v. v.* Flowers white, very small.

124. CENTAURELLA. *Mich. fl. amer.* 1. p. 97.

1. *C. caule simplici, pedunculis sparsis subcorymboso-elongatis, laciniis corollæ oblongis acutis calyce duplo* *vernalis.*

- longioribus, stylo germine longiore. *Mich. fl. amer.* 1. p. 98.
- uniflora. Icon. *Mich. l. c. t.* 12. f. 2.
 β. *C. pusilla*, caule unifloro.
 In mossy swamps: Virginia to Georgia. ☉. May—July. *v. v.* Var. β *v. s.* in *Herb. Lyon.* About five inches high; the flowers white, and larger than the rest. The variety β may be a distinct species?
- æstivalis. 2. *C. caule simplici*, pedunculis oppositis simplicibus, laciniis corollæ spathulatis abrupte acutis calyce triplo longioribus, stylo longitudine germinis.
 In mossy swamps: Carolina to Georgia. ☉. June—Aug. *v. s.* in *Herb. Enslen.* From two to four inches high; flowers smaller than No. 1; the calyx very short.
- autumnalis. 3. *C. caule subramoso*, pedunculis oppositis, inferioribus ramosis, laciniis corollæ ovalibus acutis calyce vix longioribus, stylo brevissimo.
C. paniculata. *Mich. fl. amer.* 1. p. 98.
Bartonia tenella. *Muhl. in litt.*
Sagina virginica. *Willd. sp. pl.* 1. p. 719.
 Icon. *Mich. l. c. t.* 12. f. 1.
 In mossy swamps, in inundated grassy places: New England to Carolina, common. ☉. July—Sept. *v. v.*; *v. s.* in *Herb. Gronov. sub nomine Sagina caule erecto subnudo, floribus oppositis. Saginæ affinis planta minima, floribus albis. Clayt. MSS.* 649. About a foot high, sometimes quite simple and very small; flowers small, greenish-white.

125. EXACUM. *Gen. pl.* 185.

- pulchellum. 1. *E. corollis quadrifidis*, calycibus quadripartitis: laciniis subulatis, panicula corymbosa, pedunculis filiformibus.
 Near the sea-coast of New Jersey; rare. ☉. Aug. *v. v.* Flowers rose-coloured; resembling *E. filiforme* very much.

126. SWERTIA. *Gen. pl.* 449.

- corniculata. 1. *S. corollis campanulatis corniculatis: cornibus deflexis, foliis ovatis, ramis brevibus.*
S. corniculata. *Willd. sp. pl.* 1. p. 1330?
 In swamps of Canada and round the lakes of the western part of the United States. ♂. July. *v. v.* Flowers greenish yellow. The Siberian plant differs from the

American in being *cornibus divaricatis ascendentibus, foliis lanceolatis et ramis elongatis*; by which the American plant appears to be a distinct species.

2. *S. corollis campanulato-rotatis longitudine calycis, floribus fastigiato-aggregatis axillaribus terminalibusque, pedicellis geminis, foliis spathulato-obovatis nervosis, caule ramoso.* *fastigiata.*

On the Missouri flats, near the Rocky mountain. *M. Lewis.* 24. July. *v. s. in Herb. Lewis.* Leaves large; flowers sky-blue.

3. *S. corollis rotatis calyce duplo longioribus, caule simplicissimo unicoloro, foliis oblongis.* *pusilla.*

In the alpine regions of the White-hills of New Hampshire. ☉. June. *v. v.* The whole plant scarcely above an inch high, with one or two pair of small leaves, and a considerable-sized blue flower. Divisions of the corolla oblong, acuminate; of the calyx obtuse. In the Banksian Museum are specimens from Labrador, in every respect agreeing with the New Hampshire plant.

127. FRASERA. *Mich. fl. amer.* 1. p. 96.

1. *Frasera.* *Mich. l. c.* p. 97. *Walteri.*
Frasera carolinensis. *Walt. fl. car.* 88.

In swamps of Lower Carolina and on the borders of the lakes in Pennsylvania and New York. ♂. July. *v. v.* Stem from three to six feet high; leaves in whorls or opposite; flowers in aggregate clusters, greenish-yellow, sometimes mixed with purple. The whole of the plant has a very stately appearance; its generic character approaches so near to *Swertia*, that, without seeing the fruit, it might be considered a species of that genus.

128. MITCHELLA. *Gen. pl.* 174.

1. *Mitchella.* *Willd. sp. pl.* 1. p. 617. *repens.*
Icon. Catesb. car. 1. t. 20. *Pluk. amalth. t.* 444. f. 2.
 In shady situations on rocks and round the roots of trees: Canada to Georgia. ♀. June. *v. v.* A small creeping plant; flowers white, hairy inside; berries red.

129. OLDENLANDIA. *Gen. pl.* 205.*glomerata.*

1. *O. procumbens*; foliis lanceolato-ovatis, floribus axillaribus terminalibusque conglobatis pedicellatis, germi-
nibus hispidis. *Mich. fl. amer.* 1. p. 83.
O. uniflora. *Willd. sp. pl.* 1. p. 675.
Hedyotis auricularia. *Walt. fl. car.* 85.
Hedyotis uniflora. *Lam. illustr.* 1. p. 271.
 On sandy wet fields: New Jersey to Carolina. ☉. May
 —July. *v. v.* A small creeping plant; flowers green-
 ish-white.

130. RUBIA. *Gen. pl.* 164. Madder.*Brownei.*

1. *R. hispida*; foliis quaternis ovalibus, pedunculis solitariis
unifloris, caule decumbente. *Mich. fl. amer.* 1. p. 81.
R. subhirsuta scandens vel reclinata, foliis cruciatis, flo-
 ribus singularibus ad alas. *Brown. jam.* p. 141.
R. peregrina. *Walt. fl. car.* 86.
Valantia hypocarpa. *Linn.*
 In shady woods: Carolina and Florida. ♀. +. Flowers
 yellow; berries purple, smooth.

131. GALIUM. *Gen. pl.* 162.* *Fructu glabro.**latifolium.*

1. *G. caulibus erectis lævibus*, foliis quaternis ovatis acutis
trinerviis: margine nervisque hispidis, pedunculis
oppositis lateralibus terminalibusque dichotomis diva-
 ricatis laxè multifloris.—*Mich. fl. amer.* 1. p. 79.
 In dry slaty mountains of Virginia and Carolina. ♀.
 June, July. *v. v.* Leaves broad; flowers purple. It
 generally has but one seed.

uniflorum.

2. *G. caulibus flaccidis lævibus*, foliis quaternis linearibus
acutis glabris, pedunculis axillaribus solitariis unifloris
brevissimis.—*Mich. fl. amer.* 1. p. 79.
 In Carolina. *Michaux.* +. Flowers white.

tinctorium.

3. *G. caulibus diffusis læviusculis*, foliis caulinis senis, ra-
 meis quaternis linearibus acutiusculis, margine nervo-
 que tenuissime aculeatis, pedunculis terminalibus
 elongatis plerumque trifloris.—*Willd. sp. pl.* 1. p. 586.
 In wet woods and along hedges: Canada to Virginia.
 ♀. June—Aug. *v. v.* Flowers white. This is the
 plant with which the Indians of North America dye

their feathers, porcupine quills, and other ornaments, of a beautiful red.

4. *G. caulibus diffusis ramosissimis retrorsum aculeatis, foliis caulinis senis, rameis quaternis lanceolatis acuminatis margine nervoque aculeatis, ramulis floriferis divaricatis multifloris, pedicellis brevibus.*—*Mich. fl. amer.* 1. p. 78. *asprellum.*

In swamps and among low bushes: Canada to Virginia. 24. July. *v. v.* Flowers white, very small.

5. *G. caulibus procumbentibus retro-scabris, foliis caulinis quinis, rameis quaternis linearibus obtusis margine nervoque scabris, fasciculis terminalibus paucifloris, pedicellis brevibus, corollis plerumque trifidis.*—*Willd. sp. pl.* 1. p. 585. *trifidum.*

Aparine floribus albis, &c. Gron. fl. virg. 18.

G. Claytoni. Mich. fl. amer. 1. p. 78.

In swamps and wet fields: Canada to Carolina. 24. July. *v. v.* Flowers white, very small.

**** *Fructu hirsuto.***

6. *G. caulibus flaccidis retrorsum scabris, foliis suboctonis lineari-lanceolatis mucronatis supra hispidis, margine carinaque aculeatis, ramulis floriferis longitudine foliorum subtrifloris, fructibus uncinato-hispidis.*—*Willd. sp. pl.* 1. p. 597. *Aparine.*

Icon. Fl. dan. 495. *Engl. bot.* 816.

In hedges and small woods: Pennsylvania, &c. ☉. ♂. June—Aug. *v. v.* Flowers small, white.

7. *G. caulibus ramosissimis divaricatis retrorsum aculeatis, foliis brevibus lanceolatis mucronatis glabris, margine carinaque aculeatis, ramulis floriferis divaricato-ramulosis, pedicellis subbifloris, fructibus hispidis.* *micranthum*

In mountain swamps: Canada to New York. 24. July. *v. v.* Flowers white, very numerous and exceeding small. It produces generally only one seed. Resembles *G. uliginosum* very much.

8. *G. caulibus flaccidis elongatis brachiato-ramosis hispidis: ramis brevibus, foliis senis oblongo-lanceolatis acuminatis glabris, margine carinaque setaceo-ciliatis, ramis floriferis verticillis longioribus divaricato-dichotomis: pedicellis bifloris, fructibus uncinato-hispidis.* *brachiatum.*

In meadows and on the edges of woods, frequent: New England to Virginia. 24. June—Aug. *v. v.* Flowers white.

- triflorum.* 9. *G. caulibus procumbentibus glabriusculis, foliis senis quinisque obovato-lanceolatis mucronatis glabris margine vix ciliatis, ramulis floriferis elongatis apice trifloris, floribus pedicellatis, fructibus parvis hispidis.*
Mich. fl. amer. 1. p. 80.
Icon. Wendl. hort. t. 66.
 In shady rocky places: Pennsylvania to Carolina. $\mathcal{A}$. July.
v. v. Flowers white, very small.
- hispidum.* 10. *G. caulibus procumbentibus ramosissimis hispidis, foliis quaternis ovali-lanceolatis acuminatis margine revolutis rugosis utrinque hispidis, floribus subsolitarie terminalibus, fructibus hispidis.*—*Mich. fl. amer. 1. p. 79.*
G. lappaceum. Fl. per. 1. p. 59?
 In Lower Carolina. *Michaux. +.* Flowers white.
- bermudianum.* 11. *G. caulibus ramosissimis vix pubescentibus, foliis quaternis ovatis obtusis glabris, margine nervisque pubescentibus pellucido-punctatis, ramulis floriferis elongatis, fructibus uncinato-hispidis.*—*Willd. sp. pl. 1. p. 596.*
G. purpureum. Walt. fl. car. 87.
G. punctulosum. Mich. fl. amer. 1. p. 80.
 In wet places: Virginia to Carolina. $\mathcal{A}$. July. *v. v.*
 Flowers purple.
- pilosum.* 12. *G. caulibus subsimplicibus elongato-adscendentibus remote-geniculatis hispidis, foliis quaternis ovalibus brevissime mucronatis utrinque hirsutissimis enervibus, ramulis floriferis elongatis subsimplicibus apice subtrifloris, fructibus pilosis.* *Willd. sp. pl. 1. p. 599.*
 In dry woods: Pennsylvania to Carolina. $\mathcal{A}$. June, July.
v. v. Flowers brownish purple.
- circæxans.* 13. *G. caulibus erectis lævibus, foliis quaternis ovalibus obtusis glabris, margine nervisque ciliolatis, pedunculis divaricatis paucifloris, floribus remotis subsessilibus, fructibus cernuis uncinato-hispidis.* *Mich. fl. amer. 1. p. 80.*
G. boreale. Walt. fl. car. 87.
 In dry barren woods and mountains: New England to Carolina. $\mathcal{A}$. June—Aug. *v. v.* Flowers yellowish-white; stem not above six inches high.
- boreale.* 14. *G. caulibus erectis lævigatis, foliis quaternis linearibus acutis trinervibus glabris, margine nervoque scabris, panicula terminali divaricata, fructibus tenuissime muricato setosis.*—*Willd. sp. pl. 1. p. 595.*
Icon. Fl. dan. 1024? Engl. bot. 105?
 On the banks of the Susquehanna near Wilkesbarre, among rocks: Pennsylvania and about the lakes of Ca-

nada and New York. *Ÿ*. July. *v. v.* Flowers white, very numerous, collected in a regular panicle. Though I doubt of its being the *G. borea*e of Linnæus, I found so many intermediate specimens in the collection of A. B. Lambert, Esq., collected by Pallas in Russia, that I could draw no line of essential distinction between them.

132. SPERMACOCE. *Gen. pl.* 155.

1. *S. caule erecto glabro, foliis lanceolatis supra scabris subtus glabriusculis, floribus verticillatis, seminibus hirsutis.*—*Willd. sp. pl.* 1. p. 568. *tenuior.*
Icon. Schkuhr handb. 1. t. 22. *Lam. illustr.* 1. t. 62. *f.* 1.
 In dry gravelly situations: Virginia to Carolina. ☉. June
 —Aug. *v. v.* flowers white, very small.
2. *S. caule procumbente glabro, foliis ovato-lanceolatis utrinque glabris, floribus verticillatis, seminibus glabris.*—*Mich. fl. amer.* 1. p. 82. *glabra.*
 On the banks of rivers in most of the western territories.
 ☉. July, Aug. *v. v.* Flowers white, longer than No. 1.
3. *S. caule diffuso tereti hirsuto, foliis lineari-lanceolatis glabriusculis, margine carinaque serrulato-scabris, stipulis longissime multisetis, floribus axillaribus sessilibus solitarnis alternis, seminibus hirsutis.*—*Mich. fl. amer.* 1. p. 82. *diodina.*
 In dry barren soil, on iron ore hills: Virginia to Carolina. ☉. July, Aug. *v. v.* Flowers white, very small.
4. *S. caule alterne ramoso hispidissimo, foliis ovato-lanceolatis acuminatis utrinque hirsutis, stipulis multisetis, capitulis terminalibus involucreatis, staminibus exertis.* *involuta.*
 In Carolina. *Fraser. v. s. in Herb. Lambert.* About a foot high; leaves broad and somewhat oblique; flowers white, with a very long tube.

133. DIODIA. *Gen. pl.* 158.

1. *D. glabra; caulibus procumbentibus teretiusculis, foliis lanceolatis, corollis intus glabriusculis, fructibus oblongis glabris.*—*Willd. sp. pl.* 1. p. 580. *virginica.*
D. teres. Walt. fl. car. 87.
Icon. Jacq. ic. rar. 1. t. 29. *bona.*

In sandy wet places, on road sides : Virginia to Carolina.
 ♀. June—Aug. *v. v.* Stem smooth, purple ; flowers white.

hirsuta.

2. *D. undique hirsutissima* ; caulibus procumbentibus tetragonis, foliis lineari-oblongatis, corollis intus dense-barbatis, fructibus ovatis hirsutis.

In sandy fields : Georgia near Savannah. ♀. July. *v. v.*
 Stems very branching ; flowers white, larger than the former species.

134. HOUSTONIA. *Gen. pl.* 161.

cærulea.

1. *H. caule erecto setaceo dichotomo, foliis radicalibus spatulatis, caulinis oblanceolatis oppositis, pedunculis unifloris elongatis.*—*Willd. sp. pl.* 1. p. 583.

Poiretia erecta. Gmel. syst. 263. *Anonymos. Walt. fl. car.* 86.

Icon. Bot. mag. 370. *Pluk. alm. t.* 97. *f.* 9.

elatior.

- α. *H. caule pedunculisque erectis, floribus magnis cæruleis.*

minor.

- β. *H. caule divaricato, floribus pierumque albis.*

From New England to Florida : α in rocky situations :
 β along the sandy sea-coast. ♀. April, May. *v. v.*
 Flowers a beautiful blue, sometimes white.

serpyllifolia.

2. *H. caule procumbente cæspitoso, foliis spatulatis obtusis, pedunculis terminalibus unifloris longis.* *Mich. fl. amer.* 1. p. 85.

In high mountains, near rivulets and springs : Virginia to Carolina. ♀. May. *v. v.* Flowers blue.

tenella.

3. *H. caule repente filiformi, foliis orbiculatis acutis nervosis, pedunculis terminalibus unifloris longissimis.*

On high mountains : North Carolina. *Lyon.* ♀. June. *v. s. in Herb. Lyon.* Flowers purple ; smaller than the second species, which it resembles very much.

rotundifolia.

4. *H. caule repente, foliis suborbiculatis abrupte petiolatis crassiusculis, pedunculis axillaribus solitariis unifloris.*—*Mich. fl. amer.* 1. p. 85.

Poiretia procumbens. Gmel. syst. 263. *Anonymos. Walt. fl. car.* 86.

Along the sea-coast : Virginia to Florida. ♀. March—May. *v. v.* Flowers white ; leaves evergreen.

angustifolia.

5. *H. caule erecto ramosissimo glabro, foliis linearibus, floribus terminalibus fasciculatis subsessilibus, sæpe ternis.*—*Mich. fl. amer.* 1. p. 85.

H. longifolia. Willd. *sp. pl.* 1. p. 583 ?

Along the sea-coast, in sandy fields : Carolina to Florida. $\mathcal{U}$. May—July. *v. v.* Flowers purple.

6. *H. caule erecto superne ramoso ad geniculis pubescente, foliis sessilibus ovatis lanceolatis vel lineari-lanceolatis, fasciculis terminalibus corymbosis.* Willd. *sp. pl.* 1. p. 584. *purpurea.*

H. varians. Mich. *fl. amer.* 1. p. 86.

Hedyotis umbellata. Walt. *fl. car.* 85.

Knoxia purpurea. Lam. *illustr.* 1. p. 259.

In dry woods : Pensylvania to Carolina. $\mathcal{U}$. June, July. *v. v.* Flowers purple.

135. AMMANNIA. Gen. pl. 206.

1. *A. caule erecto, foliis lanceolato-linearibus basi dilatata semi-amplexicaulibus, floribus inferioribus verticillatis.* *ramosior.*
—Willd. *sp. pl.* 1. p. 678.

In swamps and inundated fields : Virginia, Carolina, and the western territories. ☉. July, Aug. *v. v.* Flowers purple.

2. *A. caule procumbente, foliis lanceolatis in petiolum angustatis, floribus solitariis oppositis sessilibus.*—Mich. *fl. amer.* 1. p. 99. *humilis.*

A. ramosior. Walt. *fl. car.* 88.

In gravelly wet places, along rivers : Virginia to Carolina. ☉. Aug. Sept. *v. v.* Flowers red.

136. PTELEA. Gen. pl. 1505.

1. *P. foliis ternatis.* Willd. *sp. pl.* 1. p. 670. *trifoliata.*

Icon. Schmidt *arb.* 2. t. 76. Mill. *ic.* 2. t. 211.

α . *P. foliis quinatis.* Du Roi. *pentaphylla.*

β . *P. foliis pubescentibus.* *pubescens.*

In shady moist hedges and on the edges of woods among rocks : New York to Carolina. $\frac{1}{2}$. June. *v. v.* A small tree or shrub from ten to fifteen feet high. Flowers small, greenish white, in corymbose clusters. The variety β grows in Pensylvania, and appears to be a new species.

137. CORNUS. Gen. pl. 194.

* *Involucratæ capitatæ.*

1. *C. herbacea ; foliis summis verticillatis venosis, involucri ovatis acuminatis, drupis globosis.* Willd. *sp. pl.* 1. p. 661. *canadensis.*

Icon. *L'Her. corn. t. 1. Bot. mag.* 880.

In shady woods of Canada, and on high mountains in boggy ground, from New England to Carolina. $\frac{1}{2}$. May. *v. v.* About six inches high; flowers purplish-white; involucre white; berries red, ripe in July.

florida.

2. *C. arborea*; foliis ovatis acuminatis, involucriis magnis quasi obcordatis, drupis ovatis.—*Willd. sp. pl.* 1. p. 661.

Icon. *Catesb. car. t. 27. Schmidt arb. t. 62. Bot. mag.* 526. *Dog-wood.*

Frequent in woods from Canada to Carolina. $\frac{1}{2}$. May. *v. v.* A beautiful small tree; flowers greenish-yellow; involucre white, tinged with red; berries scarlet, ripe in August. The wood is exceedingly hard, and of a very fine texture.

** *Nudæ cymosæ.*

circinata.

3. *C. ramis verrucosis, foliis lato-ovalibus acuminatis subtus albo-tomentosis, cymis patentissimis.*—*L'Herit. corn.* p. 7.

C. tomentulosa. Mich. fl. amer. 1. p. 91.

C. rugosa. Lam. encycl. 2. p. 115.

C. virginiana. Hort. par.

Icon. *L'Herit. l. c. t. 3. Schmidt arb. 2. t. 69.*

On the banks of rivers: Canada to Virginia. $\frac{1}{2}$. June, July. *v. v.* A shrub from six to ten feet high; leaves broad, waved on their edges; flowers white, as in all the following species; berries blue.

sericea.

4. *C. ramis patulis: ramulis lanuginosis, foliis ovatis acuminatis subtus ferrugineo-pubescentibus, cymis depressis lanuginosis.*—*Willd. sp. pl.* 1. p. 663.

C. lanuginosa. Mich. fl. amer. 1. p. 92.

C. alba. Walt. fl. car. 88.

C. cærulea. Lam. encycl. 2. p. 116.

C. amomum. Du Roi herb. 1. p. 165.

C. rubiginosa. Ehrh. Beitr. 4. p. 15.

C. ferruginea. Hort. par.

Icon. *L'Herit. corn. t. 2. Schmidt arb. 2. t. 64.*

In swampy woods and on river banks: Canada to Carolina. $\frac{1}{2}$. June, July. *v. v.* From five to eight feet high; berries bright blue.

asperifolia.

5. *C. ramis erectis: ramulis cymisque pubescentibus, foliis brevi-petiolatis ovalibus acuminatis supra asperis subtus subtomentosis.*—*Mich. fl. amer.* 1. p. 93.

In shady woods of Lower Carolina. *Michaux.* $\frac{1}{2}$.

June, July. +. Probably only a variety of the former species.

6. *C. ramis strictis fastigiatis, foliis ovatis acuminatis glabris subconcoloribus, cymis convexis subpaniculatis.* *stricta.*
L'Herit. corn. p. 8.

C. fastigiata. Mich. fl. amer. 1. p. 92.

C. sanguinea. Walt. fl. car. 88.

C. canadensis. Hort. par.

Icon. *L'Herit. corn. t. 4. Schmidt arb. 2. t. 67.*

On the banks of rivers : Canada to Carolina, frequent.

h. June. *v. v.* From six to ten feet high ; berries blue ; anthers blue.

7. *C. ramis strictis, foliis ovatis concoloribus utrinque pubescentibus, cymis patentibus.* *sanguinea.*
L'Herit. corn. p. 5.

Icon. *Schmidt arb. 2. t. 66. Fl. dan. 481.*

Near the lakes of Canada and New York. h. June, July. *v. v.* From eight to twelve feet high ; anthers yellow ; berries dark brown.

8. *C. ramis recurvatis, ramulis glabris, foliis ovatis acutis pubescentibus subtus canis, cymis depressis.* *alba.*
L'Herit. corn. p. 6. Willd. sp. pl. 1. p. 662.

C. stolonifera. Mich. fl. amer. 1. p. 92.

C. tartarica. Mill. dict. n. 7.

Icon. *Schmidt arb. 2. t. 65.*

On the banks of rivers and lakes : Canada to Virginia.

h. May—July. *v. v.* From six to ten feet high ; branches red ; berries blueish-white.

9. *C. ramis erectis, foliis ovatis acuminatis glabris subtus canis, cymis thyrsoides.* *paniculata.*
L'Herit. corn. p. 9.

C. racemosa. Lam. encycl. 2. p. 116.

C. citrifolia. Hort. par.

β. *C. foliis elliptico-lanceolatis.* *Ehrh.*

γ. *C. racemis sterilibus foliiferis.*

albida.
radiata.

Icon. *L'Herit. corn. t. 5. Schmidt arb. 2. t. 68.*

In swamps and near rivulets among other bushes : Canada to Carolina, rare. h. July, Aug. *v. v.* From four to six feet high ; berries white, depressed globose.

10. *C. ramis verrucosis, foliis alternis ovatis acutis subtus canis, cymis depressis patentibus.* *alternifolia.*
L'Herit. corn. p. 10. Willd. sp. pl. 1. p. 664.

Icon. *L'Herit. corn. t. 6. Schmidt arb. 2. t. 70.*

In shady woods, on river banks : Canada to Carolina.

h. May—July. *v. v.* A small tree from fifteen to twenty feet high ; berries purple.

138. LUDWIGIA. *Gen. pl.* 204.* *Corollatæ.*

- macrocarpa.* 1. *L. erecta*, ramosa, glabriuscula; foliis alternis lanceolatis subtus canis, pedunculis unifloris axillaribus, capsulis globoso-tetragonis, laciniis calycinis magnis coloratis coronatis. *Mich. fl. amer.* 1. p. 89.
L. alternifolia. *Willd. sp. pl.* 1. p. 672.
Icon. Lam. encycl. 3. p. 77. *Trew chr.* 2. t. 2.
 In wet pastures and swamps: New England to Florida.
 ½. July. *v. v.* Stem purple, two feet high; flowers yellow.
- hirsuta.* 2. *L. erecta*, ramosa, hirsuta; foliis alternis oblongis sessilibus utrinque hirsutis, pedunculis unifloris axillaribus, capsulis globoso-tetragonis coronatis basi bibracteatis. *Lam. encycl.* 3. p. 587.
L. pilosa. *Walt. fl. car.* 89.
 In ditches and ponds on sandy soil: New Jersey to Carolina. ½. July, Aug. *v. v.* The same size and habit as No. 1.
- linearis.* 3. *L. erecta*, virgata, glabra; foliis alternis linearibus acutis, floribus axillaribus solitariis sessilibus, capsulis oblongis turbinatis, laciniis calycinis semilanceolatis. — *Walt. fl. car.* 89.
L. angustifolia. *Mich. fl. amer.* 1. p. 88.
 Near ditches and ponds in sandy soil: Virginia to Carolina. ½. July, Aug. *v. v.* From two to five feet high, very branchy; flowers small, yellowish-brown.
- virgata.* 4. *L. erecta*, virgata, glabra; foliis alternis linearibus obtusis, floribus terminalibus subspicatis pedicellatis, capsulis globoso-tetragonis coronatis. *Mich. fl. amer.* 1. p. 89.
L. ramosissima. *Walt. fl. car.* 89.
 In dry sandy woods of Lower Carolina. *Michaux.* ½. May, June. *v. s.* Flowers small.
- decurrens.* 5. *L. erecta*, ramosissima, glabra; foliis alternis lineari-lanceolatis decurrentibus, floribus axillaribus subsessilibus solitariis alternis, capsulis clavatis coronatis, laciniis calycinis ovali-lanceolatis. *Walt. fl. car.* 89.
L. jussæoides. *Mich. fl. amer.* 1. p. 89.
 In shady woods near ponds and ditches: Virginia and Lower Carolina. ☉. July, Aug. *v. v.* About a foot high, very branchy; flowers large, yellow.

6. *L. erecta*, glabra; foliis alternis lato-linearibus acutis basi rotundatis, capitulis spicatis terminalibus, petalis calyce brevioribus, capsulis subglobosis coronatis, laciniis calycinis dilatatis brevibus. *Mich. fl. amer.* 1. p. 90. *capitata.*

L. suffruticosa. *Walt. fl. car.* 90.

In swamps of North and South Carolina. 24. July—Sept. *v. v.* The root is creeping; infertile branches have short obovate leaves; flowers small, yellow.

7. *L. repens*, pubescens; foliis oppositis lineari-lanceolatis glabris, pedunculis axillaribus unifloris longissimis, capsulis clavato-oblongis coronatis, laciniis calycinis lanceolatis. *Mich. fl. amer.* 1. p. 88. *pedunculosa.*

L. arcuata. *Walt. fl. car.* 89.

In swamps near the sea-coast: Virginia to South Carolina. 24. May—July. *v. s.* A small plant; flowers large, yellow.

** *Apetalæ.*

8. *L. repens*, lucida; foliis oppositis ovato-lanceolatis petiolatis, floribus axillaribus solitariis sessilibus, capsulis subovatis brevi-coronatis. *Mich. fl. amer.* 1. p. 87. *nitida.*

L. apetala. *Walt. fl. car.* 89.

L. repens. *Swartz. fl. ind. occid.* 1. p. 273.

Isnardia palustris. *Willd. sp. pl.* 1. p. 680.

Icon. *Lam. encycl.* 3. t. 77.

In ditches and ponds, common: Canada to Georgia. 24. ☉. May—Sept. *v. v.* Floating in the water; flowers exceeding small, frequently with rudiments of petals.

9. *L. procumbens*, glaberrima; foliis alternis spathulato-obovalibus superne glanduloso-marginatis; floribus sessilibus axillaribus solitariis, capsulis minimis coronatis, laciniis calycinis rotundis acuminatis. *Walt. fl. car.* 88. *glandulosa.*

L. microcarpa. *Mich. fl. amer.* 1. p. 88.

In swamps of Lower Carolina. *Michaux.* 24. July. *v. s.* Flowers small; leaves acuminate, small.

10. *L. erecta*, ramosa, pubescens; foliis alternis lanceolato-oblongis, floribus sessilibus alternis superioribus congestis, capsulis subrotundis. *Mich. fl. amer.* 1. p. 90. *mollis.*

L. rudis. *Walt. fl. car.* 89.

In swamps of Lower Carolina. *Michaux.* July. +.

139. *ALCHEMILLA*. *Gen. pl.* 222. Ladies-mantle.*alpina*.

- 1.
- A. foliis digitatis apice dentatis sericeis*
- .
- Willd. sp. pl.*
1. p. 698.

Icon. *Fl. dan.* 49. *Engl. bot.* 244.

On the peaks of high mountains in Vermont and New Hampshire. $\mathcal{U}$. June, July. *v. s.* Whether the American species is the true *A. alpina* or not, I am not able to determine, as I am at present in want of specimens to compare them; but the plate in the *Flora Danica* represents the American plant fully, as far as recollection can decide.

Aphanes.

- 2.
- A. foliis tripartitis, laciniis trifidis pubescentibus, floribus axillaribus glomeratis monandris*
- .
- Willd. sp. pl.*
1. p. 699.

Aphanes arvensis. *Linn. sp. pl.* 179.Icon. *Engl. bot.* 1011. *Fl. dan.* 973. *Lam. illustr.* 1. t. 87.

In fields of Virginia. *Clayton*. ☉. May—Aug. *v. s.* in *Herb. Gronov.*

140. *BOEHMERIA*. *Gen. pl.* 1421.*cylindrica*.

- 1.
- B. foliis oppositis ovato-oblongis acuminatis dentatis glabris, floribus dioicis, spicis masculis glomeratis interruptis, femineis cylindricis, caule herbaceo*
- .
- Willd. sp. pl.*
4. p. 340.

Urtica cylindrica. *Linn. sp. pl.* 1396. *Mich. fl. amer.* 2. p. 179.Icon. *Sloan. hist. jam.* 1. t. 82. f. 2.

In shady wet places: Canada to Florida. $\mathcal{U}$. June—Aug. *v. v.* About two feet high.

lateriflora.

- 2.
- B. foliis alternis ovato-lanceolatis acuminatis serratis scabris, floribus glomeratis lateralibus, caule herbaceo*
- .
- Willd. sp. pl.*
4. p. 342.

In rocky shady woods: Pennsylvania to Virginia. $\mathcal{U}$. July. *v. v.* Leaves on long petioles, trinerved.

141. *URTICA*. *Gen. pl.* 1422. Nettle.*pumila*.

- 1.
- U. foliis oppositis ovatis acuminatis trinerviis serratis, petiolis inferioribus longitudine folii, floribus monoicis triandris capitato-corymbosis petiolo brevioribus*
- .
- Willd. sp. pl.*
4. p. 348.

In shady woods among rocks : Canada to Carolina. ☉.
July. *v. v.* Smooth and shining ; very variable in size.

2. *U. foliis oppositis ellipticis subquinenervibus argute serratis, spicis glomeratis geminatis.* *Willd. sp. pl. 4. p. 352.*

urens.

Icon. *Fl. dan.* 739. *Engl. bot.* 1236.

In cultivated grounds : Canada to Virginia ; rare. ☉.
May—July. *v. v.* Probably introduced from Europe.

3. *U. foliis oppositis cordatis ovato-lanceolatis grosse serratis, floribus dioicis, spicis paniculatis glomeratis geminatis petiolo longioribus.* *Willd. sp. pl. 4. p. 352.*

dioica.

Icon. *Fl. dan.* 746.

On road sides and in waste places, frequent : Canada to Carolina. ♀. June—Aug. *v. v.*

4. *U. foliis oppositis cordatis ovato-lanceolatis serratis, petiolis ciliatis, floribus dioicis, spicis subramosis glomeratis geminis petiolum subæquantibus.* *Willd. sp. pl. 4. p. 353.*

procera.

U. gracilis. *Ait. kew.* 3. *p.* 341 ?

On water sides in rocky situations : Canada to Pennsylvania. ♀. July, Aug. *v. v.* The specimen of *Urtica gracilis* in the Herbarium of A. B. Lambert, Esq. agrees in every respect with the present species.

5. *U. foliis oppositis subsessilibus ovatis serratis subtus strigosis, glomerulis axillaribus sessilibus subglobosis reflexis, caule stimulos.*

chamædroides.

On the islands of Georgia : St. Simon's, &c. ☉. May. *v. s. in Herb. Lyon.* The leaves are small : the stings white and very conspicuous.

6. *U. foliis alternis cordato-ovatis acuminatis serratis trinerviis petiolo duplo longioribus, glomerulis spicatis, spicis solitariis folio brevioribus, superne foliosis, caule nudo.*—*Willd. sp. pl. 4. p. 363.*

capitata.

In shady woods, near rocks ; Canada to Carolina. ♀. June, July. *v. v.* Resembles *U. dioica*.

7. *U. foliis alternis ovatis acuminatis serratis, glabriusculis, petiolis longis ciliatis, paniculis axillaribus solitariis divaricato-ramosissimis petiolo longioribus, caule stimulos.*—*Willd. sp. pl. 4. p. 365 ?*

divaricata.

In shady woods, in rocky situations : Canada to Carolina. ♀. July, Aug. *v. v.* This species is very near to the following, but is sufficiently distinct in the

leaves being not cordate and smooth, the panicles solitary and mixed with female flowers, and the general appearance of the plant.

- canadensis*. 8. *U. foliis alternis cordato-ovatis acuminatis serratis utrinque hispidis, paniculis axillaribus plerumque geminatis, divaricato-ramosissimis, inferioribus masculis petiolo longioribus, superioribus elongatis femineis, caule hispidissimo stimuloso.*—*Willd. sp. pl.* 4. p. 365.

Icon. *Pluk. alm. t.* 237. f. 2.

Near rivulets, in rocky or sandy situations : Canada to Carolina, especially in the mountains. ♀. July, Aug. v. v. From five to six feet high ; leaves large.

142. PARIETARIA. *Gen. pl.* 1576. Pellitory.

- pensylvanica*. 1. *P. foliis oblongo-lanceolatis venosis opaco-punctatis, involucro triphylo floribus longiore.* *Willd. sp. pl.* 4. p. 955.

On moist rocks : Pennsylvania, &c. ☉. June. v. v. ; v. s. in *Herb. Nuttall*.

143. VISCUM. *Gen. pl.* 1504. Mistletoe.

- flavescens*. 1. *V. foliis lanceolatis obtusis, spicis axillaribus aggregatis.*—*Willd. sp. pl.* 4. p. 740 ?

V. album. *Walt. fl. car.* 241.

Parasitic on oaks and other trees ; rare. ♀. May. v. v. It is doubtful whether this is truly *V. flavescens* ; but the specimens observed by me in the West Indies were exactly the same as those of North America ; berries white.

144. CEPHALANTHUS. *Gen. pl.* 147. Button-wood.

- occidentalis*. 1. *C. foliis oppositis ternisque.* *Willd. sp. pl.* 1. p. 543.

Icon. *Schmidt arb. t.* 45. *Pluk. alm. t.* 77. f. 4.

In deep swamps and morasses, common : Canada to Florida. ♀. July, Aug. v. v. Flowers white, in a round ball.

145. ELÆAGRUS. *Gen. pl.* 213. Oleaster.

- argentea*. 1. *E. inermis, foliis oblongis utrinque acutis argenteo-lepidotis, floribus subsolitariis nutantibus.*

In the extensive plains on the banks of the Missouri. *M. Lewis* and *T. Nuttall*. ♀. July. v. s. in *Herb.*

Lewis. Missouri Silver-tree. In the collection of A. B. Lambert, Esq., are specimens from Dr. Pallas, under the name of *E. latifolius*, which approach very near to the present species; but the leaves are longer, and but slightly covered with that silvery substance on the upper surface, which in the present one is equal on both sides: besides, the flowers are generally aggregate: it is probable that both belong to the same species, different from *E. latifolius* of Linnæus, which I do not know.

146. HIPPOPHAE. *Gen. pl.* 1509. Sea Buckthorn.

1. *H. foliis ovatis acutiusculis, supra glabriusculis, subtus argenteo-pilosis lepidotisque: squamis sparsis ferrugineis.*—*Willd. sp. pl.* 4. p. 744. *canadensis.*

Near lakes and rivers: Canada to New York. *h.* May. *v. v.*

2. *H. foliis ovatis obtusis utrinque glabris dense argenteo-lepidotis.* *argentea.*

On the banks of the Missouri. *M. Lewis. h. v. s. in Herb. Lewis. c. fr.* This shrub resembles *Elæagnus argentea* so much, that they might easily be mistaken one for the other when without fruit; but this species bears really a berry, different from the drupa of the other genus. The flowers are according to information from Mr. Nuttall four cleft, and resemble those of *Elæagnus* very much.

II. DIGYNIA.

147. PLANERA. *Mich. fl. amer.* 2. p. 247.

1. *Planera. Willd. sp. pl.* 4. p. 967. *aquatica.*

P. Gmelini. Mich. fl. amer. 2. p. 248.

Anonymos aquatica. Walt. fl. car. 230.

On the banks of rivers in both Carolinas. *h.* May. *v. v.*

A tree resembling an Elm in its foliage very much; the leaves are small, equal on their base and equally serrated; the flowers appear before the leaves at the end of the branches in close bunches, are small and of a greenish-brown colour.

148. HAMAMELIS. *Gen. pl.* 226. Witch-hazel.*virginica.*

1. *H. foliis obovatis acute dentatis sinu parvo cordatis.*—*Willd. sp. pl.* 1. p. 701.

Icon. *Catesb. car.* 3. t. 2. *Duham. arb.* 1. t. 114.

In stony and dry situations, but frequently near water : Canada to Florida. ♀. Octob.—Feb. *v. v.* This singular shrub, which grows about ten or twelve feet high, begins to show its yellow flowers in autumn, when all others have dropt their fruit, continues to flower all winter, and forms its fruit the spring following.

macrophylla.

2. *H. foliis suborbiculatis cordatis grosse obtuse-dentatis subtus scabro-punctatis.*

On river sides in the western part of Georgia. *J. Lyon.*

♀. *v. s. in Herb. Lyon.* The large leaves punctated on their lower side, with rough tubercles and other marks, give sufficient reasons to consider it a distinct species : besides this, it is very probable that under *H. virginica* are two distinct species, as the northern plant seems to differ very much from the southern in its outside appearance.

149. CUSCUTA. *Gen. pl.* 227. Dodder.*americana.*

1. *C. floribus pedunculatis umbellatis quinquefidis.* *Willd. sp. pl.* 1. p. 702.

Icon. *Sloan. hist.* 1. t. 128. f. 4.

Parasitic in hedges and on other plants, in moist situations. ☉. July. *v. v.* Twining round other plants ; leafless ; flowers in clusters ; the whole plant has a reddish-yellow appearance.

150. SANGUISORBA. *Gen. pl.* 190.*canadensis.*

1. *S. spicis cylindricis longissimis, staminibus corolla multoties longioribus.* *Willd. enum. pl. ♂ sp. pl.* 1. p. 654.

Icon. *Corn. canad. t.* 174.

In wet meadows : Canada to New York. ♀. July, Aug. *v. v.* Flowers in very long white spikes ; leaves resembling Burnet.

media.

2. *S. spicis cylindricis, staminibus corolla longioribus.* *Willd. enum. pl. ♂ sp. pl.* 1. p. 654.

In wet meadows, principally on the mountains : Canada to Carolina. ♀. July, Aug. *v. v.* The spikes shorter, and tinged with red.

III. TRIGYNIA.

151. PACHYSANDRA. *Mich. fl. amer.* 2. p. 177.

1. *P.* caule procumbente, foliis brevibus ovalibus superne crenato-dentatis, calycibus minutim ciliatis, capsula puberula. *Mich. fl. amer.* 2. p. 178.

Icon. *Mich. l. c. t.* 45.

In shady rocky situations on the Alleghany mountains.

24. June. *v. v.* Evergreen : flowers greenish-white.

IV. TETRAGYNIA.

152. ILEX. *Gen. pl.* 232. Holly.

1. *I.* foliis ovatis acutis spinosis glabris planis, floribus ad basin ramulorum annuorum sparsis. *Willd. sp. pl.* 1. p. 708. *opaca*

I. Aquifolium baccis rubris. *Walt. fl. car.* 241.

Icon. *Meerb. ic.* 2. t. 5.

In sandy woods, Canada to Carolina ; particularly plenty in the state of New Jersey. $\frac{1}{2}$. May, June. *v. v.* An evergreen beautiful tree, sometimes eighty feet high and four in diameter ; berries scarlet.

2. *I.* foliis ovatis sinuato-dentatis spinosis nitidis planis, pedunculis supra axillaribus in ramulis junioribus aggregatis laxo-ramosis. *Lam. encycl.* 3. p. 147. *laxiflora.*

I. Aquifolium baccis flavis. *Walt. fl. car.* 241.

In shady sandy woods : Carolina. $\frac{1}{2}$. May, June. *v. v.* ; *v. s.* in *Herb. Fraser.* An evergreen shrub of lower growth than the former species ; berries yellowish-red.

3. *I.* foliis ovato-lanceolatis argute serratis planis, costa media subtus glabra, pedunculis lateralibus corymbosoramosis. *Ait. kew.* 1. p. 170. *Cassine.*

Icon. *Catesb. car.* 1. t. 31.

In shady swamps : Lower Carolina to Florida. $\frac{1}{2}$. June. *v. v.* An evergreen shrub from eight to twelve feet high.

4. *I.* foliis lanceolato-ellipticis subintegerrimis margine reflexis, costa media subtus villosa, pedunculis lateralibus *Dakoon.*

terminalibusque corymboso-paniculatis. — *Walt. fl. car.* 241. *Mich. fl. amer.* 2. p. 228.

In open swamps : Carolina to Florida. $\frac{1}{2}$. May, June. *v. v.* A beautiful evergreen shrub and sometimes tree ; the leaves are very coriaceous, and resemble those of *Laurus Borbonia*.

angustifolia. 5. *I. foliis linearilanceolatis apice serratis margine reflexis, costa media subtus glabra, cymis lateralibus pedunculatis paucifloris.* — *Willd. enum. pl.*

I. myrtifolia. Walt. fl. car. 241.

I. rosmarinifolia. Lam. illustr. 1. p. 356.

ligustrifolia. β . *I. foliis latioribus omnibus integerrimis.* An species distincta ?

In deep swamps : Virginia to Georgia. $\frac{1}{2}$. June. *v. v.* An evergreen shrub from six to ten feet high.

vomitaria. 6. *I. foliis oblongis utrinque obtusis crenato-serratis glabris umbellis lateralibus subsessilibus.* *Ait. kew.* 1. p. 170. *Willd. sp. pl.* 1. p. 709.

I. Cassine. Walt. fl. car. 241.

Ilex ligustrina. Jacq. collect. 4. p. 105.

Cassine Peragua. Mill. ic. t. 83. f. 2.

Icon. Jacq. ic. rar. 2. t. 310. *Wendl. hort.* t. 31.

Along the sea-coast : Carolina to Florida. $\frac{1}{2}$. June, July. *v. v.* The leaves of this handsome shrub are used by the Indians to make their *Black drink*, so much in use among them, not only as a medicine, but also as a drink of etiquette on their councils, when matters of consequence are to be transacted.

prinoides. 7. *I. foliis deciduis lanceolatis in petiolum attenuatis leviter serratis, costa media subtus villosa, pedunculis unifloris aggregatis, fertilibus solitariis.* *Ait. kew.* 1. p. 169. *Willd. sp. pl.* 1. p. 709.

I. decidua. Walt. fl. car. 241.

On rocky shady banks of rivers : Virginia to Georgia. $\frac{1}{2}$. June, July. *v. v.* A small shrub ; berries red.

canadensis. 8. *I. foliis deciduis ovatis integerrimis seu apice rariter serratis glabris, pedunculis subsolitariis longissimis unifloris, fructu obtuse subtetragono.* *Mich. fl. amer.* 2. p. 229.

Icon. Mich. l. c. t. 49.

On high mountains, near the edges of ponds : Canada to Carolina. $\frac{1}{2}$. April, May. *v. v.* Not above three feet high ; berries large, beautiful crimson, very ornamental.

9. I? foliis *oppositis* oblongis obtusis serratis margine reflexis glabris sempervirentibus, pedunculis axillaribus brevissimis subsolitariis unifloris basi bibracteatis.

myrsinites.

On the Rocky-mountain and near the Pacific Ocean.
M. Lewis. $\frac{1}{2}$. July, Aug. *v. s. in Herb. Lewis*.

Frutex sempervirens, glaberrimus, 4-pedalis, ramosissimus: *rami* teretes, fusci, dense foliosi. *Folia* parva opposita, oblonga seu obovata, obtusa, superne serrata, postice integerrima, margine revoluta, vix petiolata. *Pedunculi* axillares, brevissimi, uniflori, solitarii seu terni, basi opposite bibracteati. *Flores* minuti, albi. *Cal.* 4-fidus: laciniis subrotundis, concavis. *Cor.* rotata, 4-fida: laciniis oblongis. *Filam.* 4. ad incisuras corollæ inserta? longitudine calycis. *Germen* superum, ovale. *Styl.* brevissimus, clavatus. *Stig.* 4-lobum, crassum. *Drupa* maturitate monosperma, ovata, atro-purpurea, magnitudine pisi. *Sem.* 1. ellipticum.

This very curious shrub, of which I have likewise observed a specimen in the museum of A. B. Lambert, Esq., collected by A. Menzies, deserves to be examined in the living plant. It approaches so near to *Myginda Rhacoma* of Jacquin, that at first I considered it to be the same plant. It likewise has great affinity to *Paltoria ovalis* *Flor. per.* 1. p. 44. t. 84. only the leaves are not opposite, but sparse and crenate not serrated, which is the case always in the present plant. As I do not know the *Myginda Rhacoma*, it would be a curious fact if this plant, from the high cold mountains of the north, should turn out to be the same with the tropical plant. I refer it to *Ilex* at present, till further observations will decide to which genus it belongs, or whether it may not form one by itself.

153. SAGINA. *Gen. pl.* 236.

1. *S. caulibus* procumbentibus glabris, petalis brevissimis. *procumbens*.
Smith. fl. brit. 1. p. 199. *Willd. sp. pl.* 1. p. 718.

Icon. Engl. bot. 880. *Pluk. alm.* t. 74. f. 2.

In barren sandy fields: Virginia and Carolina. *Walter and Clayton*. ☉. May—Aug. *v. s. in Herb. Walter*.

154. POTAMOGETON. *Gen. pl.* 234.

- natans* ? 1. *P. foliis longe petiolatis natantibus sublanceolato-ovalibus, primariis nonnullis subcordatis. Mich. fl. amer. 1. p. 101.*
 In ponds and slow-flowing waters, common. 2. June, July. *v. v.* Floating in the water; flowers, as all the following, in spikes axillary or sometimes terminal, small and of a greenish colour. It is doubtful whether this is not a new species, but I had no opportunity to compare it in a living or dried state with the European plant.
- fluitans.* 2. *P. foliis inferioribus longissimis linearibus, superioribus lanceolatis nervosis coriaceis, omnibus petiolatis.—Willd. sp. pl. 1. p. 713.*
P. foliis lanceolato-oblongis, petiolis longis. Gron. fl. virg. 139.
 In ponds on the barrens of New Jersey and Carolina. 2. July. *v. v.*
- heterophyllum.* 3. *P. foliis superioribus petiolatis ellipticis utrinque attenuatis, inferioribus confertis sessilibus linearibus. Willd. sp. pl. 1. p. 713.*
P. hybridum. Mich. fl. amer. 1. p. 101.
 In slow flowing waters of Virginia and Carolina. 2. June. *v. v.*
- setaceum.* 4. *P. foliis superioribus oppositis lanceolatis quinquenerviis brevi-petiolatis, inferioribus alternis filiformibus, spicis densis alternis folio brevioribus.—Willd. sp. pl. 1. p. 716 ?*
 In small lakes and rivers, on the pine barrens of Jersey. 2. July, Aug. *v. v.* The upper leaves are scarcely half an inch long; the whole plant very slender.
- perfoliatum.* 5. *P. foliis cordato-ovatis amplexicaulibus omnibus immersis, spicis terminalibus, floribus alternis.—Mich. fl. amer. 1. p. 101. Willd. sp. pl. 1. p. 713.*
Icon. Fl. dan. 196. Engl. bot. 168.
 In ponds and rivers, frequent: Canada to Pennsylvania. 2. July, Aug. *v. v.* Spike of flowers only floating, brown.
- lucens.* 6. *P. foliis lanceolatis subsessilibus, costa media crassa, spicis longis cylindricis. Mich. fl. amer. 1. p. 101. Willd. sp. pl. 1. p. 714.*
Icon. Fl. dan. 195. Engl. bot. 376.

In ponds and rivers on sandy soil : New Jersey to Carolina. $\mathcal{U}$. July, Aug. *v.v.* Leaves larger than any of the other sorts ; spike greenish brown.

7. *P. foliis alternis oppositisve lanceolato-ellipticis undulatis serratis spicis paucifloris.*—*Willd. sp. pl.* 1. p. 714. *crispum.*

Icon. *Fl. dan.* 927. *Curt. lond.* 5. t. 15.

In rivers and ponds : Canada to Virginia. $\mathcal{U}$. June, July. *v.v.* Spikes greenish red, small.

8. *P. foliosum ; foliis sessilibus angusto-linearibus planis, spicis capitatis subquadrifloris.* *pauciflorum.*

P. gramineum. *Mich. fl. amer.* 1. p. 102.

In rivers near the sea-coast of Lower Carolina. $\mathcal{U}$.

9. *P. foliis prælongo-setaceis approximatis distichis basi vaginantibus, spicis terminalibus interruptis verticillatis, fructibus ovatis turgidis.*—*Smith fl. brit.* 1. p. 197. *pectinatum.*

P. marinum. *Mich. fl. amer.* 1. p. 102.

In ponds and slow-flowing waters : Canada to Pennsylvania. $\mathcal{U}$. July. *v.v.* Only the spikes appear above water ; flowers seldom.

155. RUPPIA. *Gen. pl.* 235.

1. *Ruppia.* *Willd. sp. pl.* 1. p. 717.

maritima.

Icon. *Engl. bot.* 136. *Mich. gen.* 35. *Fl. dan.* 364.

On the mouth of most rivers in North America. $\mathcal{U}$. *v.v.*

V. PENTANDRIA.

I. MONOGYNIA.

* *Flores monopetali, inferi, tetraspermi. Asperifoliæ.*

- 156. ECHIUM. *Cor.* fauce nuda, irregularis, campanulata.
- 157. HELIOTROPIMUM. *Cor.* fauce nuda, hypocrateriformis, lobis dente interjectis.
- 158. PULMONARIA. *Cor.* fauce nuda, infundibuliformis. *Cal.* prismaticus.
- 159. LITHOSPERMUM. *Cor.* fauce nuda, infundibuliformis. *Cal.* 5-partitus.
- 160. BATSCHIA. *Cor.* fauce nuda, hypocrateriformis, intus basi annulo barbato cinctus : laciniis rotundatis. *Cal.* 5-fidus.
- 161. ONOSMODIUM. *Cor.* fauce nuda, subcampanulata, limbo verticoso : laciniis conniventibus acutis. *Anth.* sessiles inclusæ. *Cal.* 5-partitus.
- 162. LYCOPSIS. *Cor.* fauce fornicata, infundibuliformis, tubo curvato.
- 163. CYNOGLOSSUM. *Cor.* fauce fornicata, infundibuliformis. *Sem.* depressa, latere affixa.
- 164. MYOSOTIS. *Cor.* fauce fornicata, hypocrateriformis, lobis emarginatis.

* *Flores monopetali, inferi, angiospermi.*

- 165. HYDROPHYLLUM. *Caps.* 1-locularis, 2-valvis. *Cor.* campanulata, interne striis 5. melliferis longitudinalibus. *Stigm.* 2-fidum.
- 166. ANAGALLIS. *Caps.* 1-locularis, circumscissa. *Cor.* rotata. *Stigm.* capitatum.
- 167. LYSIMACHIA. *Caps.* 1-locularis, 10-valvis. *Cor.* rotata. *Stigm.* obtusum.
- 168. DODECATHEON. *Caps.* 1-locularis, oblonga. *Cor.*

rotata, reflexa. *Stam.* tubo insidentia. *Stigm.* obtusum.

169. PRIMULA. *Caps.* 1-locularis. *Cor.* tubus cylindricus, ore patulo. *Stigm.* globosum. *Involucr.* umbellulæ.
170. ANDROSACE. *Caps.* 1-locularis. *Cor.* hypocrateriformis, fauce coarctata. *Stigm.* globosum.
171. SABBATIA. *Caps.* 1-locularis. *Cor.* tubo urceolato, limbo 5—12-partito. *Stigm.* 2-partitum: laciniis spiralibus. *Anth.* demum revoluta.
172. HOTTONIA. *Caps.* 1-locularis. *Cor.* hypocrateriformis. *Stam.* tubo corollæ imposita. *Stigm.* globosum.
173. MENYANTHES. *Caps.* 1-locularis, 2-valvis. *Cor.* rotata: laciniis disco longitudinaliter barbatis, margine planis. *Stigm.* 2-fidum.
174. VILLARSIA. *Caps.* 1-locularis, 2-valvis. *Cor.* rotata: laciniis basi barbatis, margine inflexis. *Stigm.* 2-lobum. *Glandulæ* 5. staminibus alternæ.
175. SPIGELIA. *Caps.* 2-locularis, didyma. *Cor.* infundibuliformis. *Stigm.* simplex.
176. OPHIORRHIZA. *Caps.* 2-locularis, 2-partita. *Cor.* infundibuliformis. *Stigm.* 2-fidum.
177. PHACELIA. *Caps.* 2-locularis, 4-sperma. *Cor.* sub-campanulata. *Stam.* exerta. *Styl.* brevis.
178. ELLISIA. *Caps.* 2-locularis, 2-valvis: loculi 2-spermi, semine uno supra alterum. *Cor.* infundibuliformis, angusta. *Stam.* inclusa. *Stigm.* 2-fidum. *Cal.* persistens.
179. DATURA. *Caps.* 2-locularis, 4-valvis. *Cor.* infundibuliformis. *Cal.* deciduus.
180. HYOSCYAMUS. *Caps.* 2-locularis, operculata. *Cor.* infundibuliformis, irregularis. *Stam.* inclinata. *Stigm.* capitatum.
181. NICOTIANA. *Caps.* 2-locularis, 2-valvis. *Cor.* infundibuliformis, limbo plicato. *Stam.* inclinata. *Stigm.* emarginatum.
182. VERBASCUM. *Caps.* 2-locularis. *Cor.* rotata, inæqualis. *Fil.* barbata. *Stigm.* obtusum.
183. CALYSTEGIA. *Caps.* semibiloculare, sub-4-sperma. *Cor.* campanulata, 5-plicata. *Stigm.* 2. globosa. *Cal.* basi bibracteatus.
184. CONVULVULUS. *Caps.* 2—3-locularis. *Cor.* campanulata, 5-plicata. *Stigm.* 2. filiformia. *Cal.* nudus aut bibracteatus.

185. IPOMŒEA. *Caps.* 2-3-locularis. *Cor.* infundibuliformis, 5-plicata. *Stigm.* capitatum, 2-3-lobum. *Cal.* nudus.
186. CANTUA. *Caps.* 3-locularis, 3-valvis. *Cor.* infundibuliformis. *Stigm.* 3-fidum. *Sem.* alata.
187. DIAPENSIA. *Caps.* 3-locularis, 3-valvis, polysperma. *Cor.* hypocrateriformis: tubo brevi. *Cal.* 5-partitus, basi bracteatus. *Styl.* brevis. *Stigm.* 3-lobum.
188. PHLOX. *Caps.* 3-locularis, 1-sperma. *Cor.* hypocrateriformis. *Fil.* inæqualia. *Stigm.* 3-fidum. *Cal.* prismaticus.
189. POLEMONIUM. *Caps.* 3-locularis. *Cor.* 5-partita, fundo clausa valvis staminiferis. *Stigm.* 3-fidum.
190. AZALEA. *Caps.* 5-locularis. *Cor.* infundibuliformis aut campanulata. *Stam.* receptaculo inserta. *Stigm.* obtusum.
191. BUMELIA. *Drupa* 1-sperma. *Cor.* hypocrateriformis limbo dentibus interjecto. *Nect.* 5-phyllum.
192. SOLANUM. *Bacca* 2-locularis. *Cor.* rotata, plicata. *Antheræ* biperforatæ, subcoalitæ. *Cal.* persistens.
193. PHYSALIS. *Bacca* 2-locularis intra calycem inflatum. *Cor.* campanulato-rotata. *Antheræ* approximatæ.
194. NICANDRA. *Bacca* 3-5-locularis, exsucca. *Cor.* campanulata. *Stam.* incurva. *Cal.* 5-angulatus: laciniis sagittatis.

* *Flores monopetali, superi.*

195. SAMOLUS. *Caps.* 1-locularis, apice 5-valvis. *Cor.* hypocrateriformis. *Stigm.* capitatum.
196. PINKNEYA. *Caps.* 2-locularis: valvis medio septiferis. *Cor.* tubulosa. *Cal.* laciniis 1-2. bractæformibus. *Fil.* basi tubi inserta. *Sem.* alata.
197. CAMPANULA. *Caps.* 2-5-locularis, poris lateralibus deliscentis. *Cor.* campanulata, fundo clauso valvis staminiferis. *Stigm.* 3-5-fidum.
198. CHIOCOCCA. *Bacca* 2-sperma, didyma. *Cor.* infundibuliformis. *Stigm.* simplex.
199. CAIRIFOLIUM. *Bacca* 3-locularis, polysperma, distincta. *Cor.* tubulosa, longa, 5-fida. *Cal.* 5-dentatus.
200. XYLOSTEUM. *Baccæ* duæ basi connatæ, 2-locu-

lares, polyspermæ. *Cor.* infundibuliformis, subæqualis. *Cal.* 5-dentatus.

201. SYMPHORIA. *Bacca* 4-locularis, 4-sperma, coronata. loculis interdum 2. abortivis. *Cor.* tubulosa, brevis, 5-fida, subæqualis. *Cal.* 4-dentatus.
202. DIERVILLA. *Caps.* 4-locularis, oblonga, polysperma. *Cor.* infundibuliformis, 5-fida, patens. *Cal.* oblongus, 5-fidus.
203. TRIOSTEUM. *Bacca* 3-locularis, 3-sperma. *Cor.* calyce vix longior, tubulosa. *Cal.* 5-fidus. *Stigm.* oblongum.

* *Flores pentapetali, superi.*

204. RIBES. *Bacca* polysperma. *Cal.* corollifer. *Styl.* bifidus.

* *Flores pentapetali, inferi.*

205. RHAMNUS. *Bacca* 3-4-sperma. *Cal.* tubulosus, corollifer. *Pet.* oris 5, convergentia. *Dioicus.*
206. CEANOTHUS. *Bacca* 3-cocca, sicca. *Cal.* tubulosus, corollifer. *Petala* fornicata.
207. CELASTRUS. *Caps.* 3-cocca, 3-locularis. *Sem.* calyptrata. *Cor.* 5-petala, patens.
208. EVONYMUS. *Caps.* 5-gona, 5-valvis, colorata. *Sem.* calyptrata. *Cor.* 5-petala, plana.
209. VI. IS. *Bacca* 5-sperma. *Petala* apice cohærentia, emarcida. *Styl.* 6. *Dioica.*
210. CISSUS. *Bacca* 2-locularis, 1-4-sperma. *Petala* reflexo-patula, decidua. *Nectar.* discus germen cingens.
211. CYRILLA. *Bacca* 2-locularis, 2-sperma, exsiccabilis. *Petala* 5. stellatim patentia. *Cal.* minimus subturnatus. *Stylus* 2-fidus.
212. ITEA. *Caps.* 2-locularis, 2-valvis : valvis margine introflexo seminiferis. *Petala* 5. reflexo-patentia. *Cal.* 5-fidus, campanulatus. *Stigm.* capitatum, 2-lobum.
213. IMPATIENS. *Caps.* 1-locularis, 5-valvis. *Cor.* irregularis, calcarata. *Cal.* 2-phyllus. *Anther.* cohærentes.
214. VIOLA. *Caps.* 1-locularis, 3-valvis. *Cor.* irregularis, calcarata. *Cal.* 5-phyllus. *Anther.* cohærentes.
215. CLAYTONIA. *Caps.* 1-locularis, 3-valvis. *Cal.* 2-valvis. *Stigm.* 3-fidum.

* *Flores incompleti.*

216. GLAUX. *Cal.* inferus, 1-phyllus, coloratus, 5-lobus.
Caps. 1-locularis, 5-valvis, 5-sperma, calyce cincta.
217. ANYCHIA. *Cal.* inferus, connivens, 5-partitus :
 laciniis oblongis, apice subsaccatis. *Stigm.* 2. *Utriculus* 1-spermus.
218. THESIUM. *Cal.* superus, staminifer. *Sem.* 1. coronatum.
219. NYSSA. *Cal.* superus, 5-partitus. *Drupa.* *Mas.*
Stam. 10. *Polygama.*
220. HAMILTONIA. *Cal.* superus, 5-fidus. *Nect.* discus 5-dentatus. *Drupa.* *Dioica.*

II. DIGYNIA.

* *Flores monopetali, inferi.*

221. ECHITES. *Folliculi* 2. longi, recti. *Sem.* papposa.
Cor. infundibuliformis, fauce nuda. *Anther.* conniventes in conum.
222. GONOLOBUS. *Folliculi* 2. ut plurimum costati seu angulati. *Sem.* papposa. *Cor.* rotata, profunde 5-partita. *Appendix* brevissima, inclusa. *Styl.* discoideo 5-gonus.
223. APOCYNUM. *Folliculi* 2. longi, lineares. *Sem.* papposa. *Cor.* campanulata. *Filamenta* 5. cum staminibus alterna. *Styl.* subnullus. *Stigm.* latum.
224. ASCLEPIAS. *Folliculi* 2. *Sem.* papposa. *Cor.* rotata, plerumque reflexa. *Nectar* 5. ovata, concava, corniculum exserentia. *Anther.* corneæ, longitudinaliter dehiscentes.
225. AMSONIA. *Folliculi* 2. *Sem.* nuda, teretia, oblique truncata. *Cor.* infundibuliformis fauce clausa.
226. GELSEMINUM. *Caps.* 2-locularis, 2-valvis, compresso-plana. *Sem.* plana, valvularum marginibus annexa. *Cor.* infundibuliformis, limbo patente, subæquali. *Cal.* 5-dentatus.
227. GENTIANA. *Caps.* 1-locularis, 2-valvis. *Receptaculis* 2. longitudinalibus. *Cor.* 1-petala, indeterminata.
228. HYDROLEA. *Caps.* 2-locularis, 2-valvis. *Cor.* rotata. *Filam.* basi cordata. *Stigm.* capitato-peltata. *Cal.* 5-phyllus.

229. DICHONDRA. *Caps.* subcompressa, didyma, 2-locularis: loculis 1-spermis. *Cor.* brevi-campanulata. *Stigm.* peltato-capitata. *Cal.* 5-partitus: laciniis subspathulatis.
230. EVOLVULUS. *Caps.* 1-locularis, 4-valvis, 1-sperma. *Cor.* rotato-campanulata. *Styli* 2. profunde 2-fidi: laciniis capillaribus, divergentibus. *Stigm.* simplicia.

* *Flores pentapetali, inferi.*

231. HEUCHERA. *Caps.* 2-locularis, 2-rostris. *Pet.* 5. calyci inserta.
232. ZIZYPHUS. *Drupa* nuce 2 loculari. *Discus* carnosus, orbicularis, pistillum ambiens. *Cal.* tubulosus, corollifer. *Dioicus.*

* *Flores pentapetali, superi dispermi. Umbellatæ.*

233. ERYNGIUM. *Flores* capitati. *Recep.* paleaceum. *Invol.* polyphyllum. *Cal.* proprius 5-phyllus, superus.
234. HYDROCOTYLE. *Umbella* simplex. *Invol.* 4-phyllum. *Pet.* integra. *Sem.* semiorbiculato-compressa.
235. PANAX. *Umbella* simplex. *Bacca* cordata, 2-sperma. *Polygama.*
236. SANICULA. *Umbellæ* confertæ, subcapitatæ. *Fructus* aculeatus. *Flores* disci abortientes.
237. DAUCUS. *Corollæ* subradiatæ. *Flosculi* disci abortivi. *Fructus* pilis hispidus. *Umbella* fructus contracta, infundibuliformis. *Involucra* pinnatifida.
238. AMMI. *Corollæ* radiatæ: omnes hermaphroditæ. *Fructus* lævis. *Umbella* laxa. *Involucra* pinnatifida.
239. SELINUM. *Fructus* ovali-oblongus, compresso-planus, in medio striatus. *Invol.* reflexum. *Pet.* cordata, æqualia. *Cal.* integer.
240. FERULA. *Invol.* universale caducum: partiale polyphyllum. *Fructus* ovalis, compresso-planus, striis utrinque 3.
241. HERACLEUM. *Fructus* ellipticus, emarginatus, compressus, striatus, marginatus. *Cor.* difformis, inflexo-emarginata. *Invol.* caducum.
242. LIGUSTICUM. *Fructus* oblongus, 5-sulcatus utrinque. *Corollæ* æquales. *Pet.* involuta, integra. *Cal.* 5-dentatus.

243. ANGELICA. *Fructus* subrotundus, solidus, utrinque 3-alatus, stylis reflexis. *Corollæ* æquales: petalis incurvis.
244. SIUM. *Fructus* subovatus, compressus, striatus. *Invol.* polyphyllum. *Pet.* cordata.
245. CENANTHE. *Flosculi* diffformes: in disco sessiles, steriles. *Fructus* striatus, retusus, suberoso-corticatus, coronatus calyce et pistillo. *Umbellæ* globosæ.
246. PHELLANDRIUM. *Flosculi* disci minores. *Fructus* ovatus, lævis, coronatus calyce et pistillo.
247. CICUTA. *Fructus* subovatus, sulcatus. *Invol.* 0: partiale 3—5-phyllum.
248. CONIUM. *Fructus* subglobosus, 5-striatus, utrinque crenatus. *Involucella* dimidiata, subtriphylla.
249. CHÆROPHYLLUM. *Invol.* reflexum, concavum. *Pet.* inflexo-cordata. *Fructus* oblongus, lævis, aut striatus, glaberrimus.
250. PASTINACA. *Fructus* ellipticus, compresso-planus. *Pet.* involuta, integra.
251. SMYRNIUM. *Fructus* subcompressus, gibbosus, striatus. *Pet.* acuminata, carinata.
252. SESELI. *Umbellæ* globosæ. *Invol.* foliolo uno alterove. *Fructus* ovatus, striatus.

* *Flores incompleti.*

253. SALSOLA. *Sem.* 1. cochleatum, tectum. *Cal.* 5-phyllus.
254. CHENOPODIUM. *Sem.* 1. lenticulare, superum. *Cal.* 5-phyllus, 5-gonus.
255. ATRIPLEX. *Sem.* 1. compressum seu depressum. *Cal.* 5-phyllus. *Flor.* feminei intermixti: quibus *Cal.* 2-phyllus. *Polygama.*
256. CANNABIS. *Nux* 2-valvis, intra calycem clausum. *Mas. Cal.* 5-partitus. *Fem. Cal.* 5-phyllus, integer, latere hians. *Dioica.*
257. HUMULUS. *Sem.* 1. intra calycem foliatum (in strobilum). *Mas. Cal.* 5-phyllus. *Fem. Cal.* 1-phyllus, oblique patens, integer. *Dioica.*
258. ULMUS. *Samara* compressa, membranaceo-alata. *Cal.* campanulatus, 5-fidus, marcescens.
259. CELTIS. *Drupa* 1-sperma, *Cal.* 5-6-partitus. *Stam.* 5-6. *Styl.* divaricati, crassiusculi. *Polygama.*

III. TRIGYNIA.

260. VIBURNUM. *Cal.* superus, 5-partitus. *Cor.* 5-fida. *Drupe* 1-sperma.
261. SAMBUCUS. *Cal.* superus, 5-partitus. *Cor.* 5-fida. *Bacca* 3-sperma.
262. RHUS. *Cal.* inferus, 5-partitus. *Pet.* 5. *Bacca* 1-sperma.
263. STAPHYLEA. *Cal.* inferus, 5-partitus. *Pet.* 5. *Caps.* inflatæ, connatæ. *Nuces* 2. globosæ cum cicatrice.
264. TURNERA. *Cal.* inferus, 5-fidus, infundibuliformis. *Pet.* 5. calyce inserta. *Stigmata* multifida. *Caps.* 1-locularis, 3-valvis.
265. CROTONOPSIS. *Cal.* inferus, 5-partitus. *Pet.* 5. *Stigmata* bifida. *Caps.* 1-sperma, non dehiscens. *Monoica.*
266. KOCHIA. *Cal.* inferus, 5-fidus. *Cor.* 0. *Stigm.* simplicia. *Sem.* 1. orbiculatum, calyce persistente cinctum.
267. AMARANTHUS. *Cal.* 3—5-phyllus. *Cor.* 0. *Stam.* 3—5. *Caps.* 1-locularis, 1-sperma, circumscissa. *Monoicus.*
268. ACNIDA. *Cal.* 3—5-partitus. *Cor.* 0. *Stigm.* sessilia. *Caps.* 1-sperma. *Dioica.*

IV. TETRAGYNIA.

269. PARNASSIA. *Cal.* 5-partitus. *Pet.* 5. *Nectar.* 5. cordata, ciliata, apicibus globosis. *Caps.* 2-locularis, 4-valvis.

V. PENTAGYNIA.

270. ARALIA. *Cal.* superus, 5-dentatus. *Pet.* 5. *Bacca* coronata, 5-sperma. *Involucr.* umbellulæ.
271. ZANTHOXYLUM. *Cal.* inferus, 5-partitus. *Cor.* 0. *Caps.* 3—5. 1-spermæ. *Dioicum.*
272. LINUM. *Cal.* inferus, 5-phyllus. *Pet.* 5. *Fil.* basi coalita. *Caps.* 10-locularis, 5-valvis. *Sem.* solitaria.
273. DROSERA. *Cal.* inferus, 5-fidus. *Pet.* 5. *Caps.* 1-locularis, apice 3—5-valvis. *Sem.* plurima.

274. *SIBBALDIA*. *Cal.* inferus, 10-fidus. *Pet.* 5. calyci inserta. *Styli* e latere germinis. *Sem.* 5.
 275. *STATICE*. *Cal.* inferus, 1-phyllus, tubulosus, plicatus, 10-dentatus. *Cor.* 1-petala, hypocrateriformis, 5-fida. *Caps.* 1-locularis, basi 5-valvis. *Sem.* 1. teres.

VI. POLYGYNIA.

276. *ZANTHORHIZA*. *Cal.* 0. *Pet.* 5. *Nectar.* 5. pedicellata. *Caps.* 1-sperma.
 277. *SCHISANDRA*. *Cal.* triplici serie 9-phyllus. *Cor.* 0. *Anther.* subsessiles, apice cohærentes. *Baccæ* numerosæ, 1-spermæ, receptaculo filiformi elongato insertæ. *Monoica*.

I. MONOGYNIA.

156. *ECHIUM*. *Gen. pl.* 267.*vulgare.*

1. *E.* caule tuberculato-hispido, foliis caulinis lanceolatis hispidis, floribus spicatis lateralibus. *Willd. sp. pl.* 1. p. 787.

Icon. *Fl. dan.* 445. *Lam. illustr.* 94. f. 1.On dry slate-hills: New York to Virginia, rare. Introduced from Europe? ♂. July—Sept. *v. v.*157. *HELIOTROPIUM*. *Gen. pl.* 239.*indicum.*

1. *H.* foliis cordato-ovatis acutis scabriusculis, spicis solitariis, fructibus bifidis. *Willd. sp. pl.* 1. p. 740.

Icon. *Pluk. phyt. t.* 295. f. 4.On road sides: Virginia to Carolina, rare. ☉. June—Aug. *v. v.*158. *PULMONARIA*. *Gen. pl.* 244.*virginica.*

1. *P.* glabra, erecta; foliis lanceolato-ovatis obtusiusculis, floribus fasciculato-terminalibus, corollis calyce multo longioribus.—*Willd. sp. pl.* 1. p. 769.

Icon. *Mill. ic.* 212. *Bot. mag.* 160.

- On gravelly shores of rivers: Pennsylvania to Carolina.
 ♀. March—May. *v. v.* Flowers beautiful blue.
2. *P. subhirsuta*, erecta; foliis ovato-oblongis acuminatis, floribus paniculatis, calycibus abbreviatis quinquepartitis.—*Willd. sp. pl.* 1. p. 769. *paniculata.*
 On Hudson's Bay. *Aiton.* May, June. +. Flowers blue or white.
3. *P. glaberrima*, procumbens; foliis ovali-spathulatis abrupte acuminatis carnosis, pedunculis lateralibus unifloris, corollis calyce vix duplo longioribus.—*Mich. fl. amer.* 1. p. 131. *parriflora.*
- P. maritima*? *Willd. sp. pl.* 1. p. 770.
 On the sea shore of New England and Canada. ♀. July. *v. s.* Flowers blue.

159. LITHOSPERMUM. *Gen. pl.* 241.

1. *L. seminibus rugosis*, corollis vix calycem superantibus, foliis obtusis aveniis. *Smith fl. brit.* 1. p. 213. *arvense.*
Willd. sp. pl. 1. p. 751.
Icon. Engl. bot. t. 123. *Fl. dan.* 456.
 In waste fields, on dry ground: frequent in Pennsylvania, probably introduced from Europe. ☉. May—July.
v. v. Flowers pale white; seeds rough, brownish.
2. *L. seminibus turgide ovatis lucidis undique cavo-punctatis*, calycibus fructiferis patulis corollam superantibus, foliis ovato-oblongis nervosis.—*Mich. fl. amer.* 1. p. 131. *latifolium.*
 In shady woods: Virginia to Kentucky. ♀. June, July.
v. v. Flowers pale yellow.
3. *L. seminibus turgide ovatis nitidis undique cavo-punctatis*, floribus passim lateralibus, foliis linearibus adpresso-pubescentibus, caule procumbente.—*Mich. fl. amer.* 1. p. 130. *angustifolium.*
 In shady woods: on the river Ohio. *Michaux.* ☉. July, Aug. *v. s.* Flowers white.
4. *L. seminibus muricatis*, spicis terminalibus secundis, bracteis lanceolatis, foliis lineari-lanceolatis acutis. *Willd. sp. pl.* 1. p. 752. *apulum.*
Icon. Col. ecphr. 1. t. 192.
 In dry woods: Virginia, Ohio and Mississippi. ☉. May—Aug. *v. v.* Flowers yellow, very small.

160. BATSCHIA. *Mich. fl. amer.* 1. p. 129.*Gmelini.*

1. *B. hirsuta*; foliis floralibus ovatis, calycibus longis sub-lanceolatis.—*Mich. fl. amer.* 1. p. 130.

Anonymos caroliniensis. *Walt. fl. car.* p. 91.

In dry sunny woods of Lower Carolina. $\mathcal{U}$. May—July.
v. s. in Herb. Lyon. Flowers pale yellow.

canescens.

2. *B. candicanti-villosa*; foliis omnibus oblongis, calycibus brevissimis, laciniis corollæ integris.—*Mich. fl. amer.* 1. p. 130.

Anchusa floribus sparsis, caule glabro. *Gron. fl. virg.* p. 24.

Icon. Mich. fl. amer. 1. t. 14.

On dry sunny hills, in sandy soil: Virginia, Tennessee, &c. $\mathcal{U}$. June, July. *v. v.* Flowers of a deep golden yellow; the root is covered with a red substance, which is the true *Puccoon* of the Indians, and paints a beautiful red.

longiflora.

3. *B. sericeo-villosa*; foliis linearibus, calycibus longis linearibus, laciniis corollæ crenato-incisis, tubo elongato. On the banks of the Missouri. *Nuttall. fl.* $\mathcal{U}$. July. *v. s. in Herb. Nuttall.* Flowers yellow.

161. ONOSMODIUM. *Mich. fl. amer.* 1. p. 132.*hispidum.*

1. *O. hispidum*; foliis obovati-lanceolatis acutis papilloso-punctatis, laciniis corollæ subulatis.—*Mich. fl. amer.* 1. p. 133.

Lithospermum virginianum. *Willd. sp. pl.* 1. p. 752.

On dry lime-stone hills: New York to Carolina. $\mathcal{U}$. July, Aug. *v. v.* Flowers yellowish-white, similar to those of *Symphytum*.

molle.

2. *O. candicanti-villosum*; foliis oblongo-ovalibus subtripplinerviis, laciniis corollæ subovalibus.—*Mich. fl. amer.* 1. p. 133.

Lithospermum carolinianum. *Lam. illustr.* 1. p. 397.

Icon. Mich. l. c. t. 15.

In the western countries from Pennsylvania to Tennessee. $\mathcal{U}$. June—Aug. *v. v.* Flowers white.

162. LYCOPSIS. *Gen. pl.* 250.*arvensis.*

1. *L. hispida*; foliis lanceolatis repando-dentatis, racemis geminis, floribus sessilibus.—*Willd. sp. pl.* 1. p. 780.

Icon. *Fl. dan.* 435. *Engl. bot.* 938. *Lam. illustr. t.* 92.
In fields: Pennsylvania to Virginia. Probably introduced.
☉. June, July. *v. v.* Flowers blue.

2. *L. pusilla*, hispidissima; foliis inferioribus spathulatis, superioribus lineari-oblongis integerrimis, racemis solitariis, floribus pedunculatis.—*Willd. sp. pl.* 1. p. 781. *virginica.*
In dry woods and on road sides: Pennsylvania to Virginia.
☉. May—July. *v. v.* Flowers white, very small.

163. CYNOGLOSSUM. *Gen. pl.* 243.

1. *C. mollissime pubescens*; foliis lato-lanceolatis sessilibus, racemis paniculatis.—*Willd. sp. pl.* 1. p. 760. *officinale.*
Icon. *Curt. lond.* 4. t. 16. *Bot. mag.*
In dry woods, in the lime-stone countries, frequent. ♂.
June, July. *v. v.* Flowers brownish-red.
2. *C. nudiusculum*; foliis spathulato-lanceolatis lucidis subtus scabris, racemis sparsis. *Smith. fl. brit.* 1. p. 216. *sylvaticum.*
C. virginicum. *Willd. sp. pl.* 1. p. 760.
Icon. *Engl. bot.* 1642.
In similar situations in Virginia. ♂. June, July. *v. v.*
Flowers blueish-brown.
3. *C. hirsutissimum*; foliis ovali-oblongis, superioribus amplexicaulis, corymbo terminali aphylo longe pedunculato. *Mich. fl. amer.* 1. p. 132. *amplexicaule.*
C. foliis amplexicaulis. *Gron. fl. virg.* p. 24.
C. virginicum. *Linn sp. pl.* 134.
In shady moist woods: Pennsylvania to Virginia. ♀.
May—July. *v. v.* Flowers beautiful blue and white.
Willdenow's *C. virginicum* is certainly not the plant alluded to by Linnæus in his *Species Plantarum*, by which he refers to Clayton's plant, which evidently is the present species.

164. MYOSOTIS. *Gen. pl.* 240.

1. *M. perennis*; seminibus lævibus, calycibus subovalibus glabris tubo corollæ fere longitudine, caule subramoso, foliis lanceolatis. *Roth. germ.* i. 87. ii. 221. *palustris.*
M. scorpioides. *Willd. sp. pl.* 1. p. 746.
Icon. *Fl. dan.* 583.
In rivulets and ditches, frequent. ♀. May—Sept. *v. v.*
2. *M. annua*; seminibus lævibus, calycibus ovalibus acuminatis hirsutissimis tubo corollæ longioribus, caule ra- *arvensis.*

- mosissimo, racemis conjugatis, foliis ovato-lanceolatis, *Willd. sp. pl. 1. p. 747.*
 In fields and shady woods : New York, Pennsylvania, &c. ☉. June, July. *v. v.* Flowers pale blue, very small.
- virginiana.* 3. *M. pilosum* ; seminibus aculeato-glochidibus, foliis ovato-lanceolatis acuminatis, racemis divaricatis.—*Willd. sp. pl. 1. p. 748.*
 In dry open woods : Virginia, Carolina, &c. ☉. June, July. *v. v.* Flowers small, pale blue ; leaves large.
- Lappula.* 4. *M. hispidum* ; seminibus aculeis glochidibus, foliis lineari-oblongis, caule stricte ramosissimo.—*Willd. sp. pl. 1. p. 749.*
 On way sides and among rubbish : Canada to Virginia. ☉. May—Aug. *v. v.* Flowers blue.

165. HYDROPHYLLUM. *Gen. pl. 267.*

- appendiculatum.* 1. *H. hirsutissimum*, foliis radicalibus subpinatifidis, caulibus sublobato-angulosis, calycis sinibus appendiculatis, fasciculis florum subpaniculatis.—*Mich. fl. amer. 1. p. 134.*
 On shady rocks, near springs : Virginia, near Harper's Ferry, Tennessee, &c. ♀. May. *v. v.* Flowers pale blue ; the calyx extremely hispid, and almost the length of the corolla.
- virginicum.* 2. *H. glabriusculum* ; foliis pinatifidis pinnatisque, laciniis ovali-lanceolatis inciso-serratis, fasciculis florum conglomeratis.—*Willd. sp. pl. 1. p. 814.*
Icon. Lam. illustr. t. 97. f. 1.
 In shady rocky situations : Canada to Carolina. ♀. May, June. *v. v.* Flowers beautiful blue.
- canadense.* 3. *H. hirsutum* ; foliis lobato-angulosis, fasciculis florum confertis.—*Willd. sp. pl. 1. p. 815.*
Icon. Lam. illustr. t. 97. f. 2.
 On wet rocks and shady mountains : Canada to Pennsylvania. ♀. June, July. *v. v.* Flowers white, shaded with purple.
- lineare.* 4. *H. pilosum* ; foliis linearibus, racemis elongatis.
 On the banks of the Missouri, *M. Lewis* ♀. April. *v. s. in Herb. Lewis.*

166. ANAGALLIS. *Gen. pl.* 270.

1. *A. foliis ovatis subtus punctatis, caule procumbente.* *arvensis.*
Smith, fl. brit. 1. p. 230. *Willd. sp. pl.* 1. p. 821.
Icon Engl. bot. 529. *Fl. dan.* 89.
 In cultivated grounds: Pennsylvania to Virginia; introduced from Europe? ☉. June, July. *v.v.* Flowers red.

167. LYSIMACHIA. *Gen. pl.* 269.

1. *L. glaberrima, ramulosa; foliis oppositis verticillatisque angustifolia.*
 longo-linearibus punctatis, racemo terminali brevi, laciniis corollæ oblongis.—*Mich. fl. amer.* 1. p. 128.
 In Lower Carolina. *Michaux.* 2. +. Flowers yellow, as the other species, very small.
2. *L. glaberrima, elata; foliis ovali-lanceolatis oppositis racemosa.*
 punctatis, racemo terminali longissimo laxo, laciniis corollæ oblongo-ovalibus.—*Mich. fl. amer.* 1. p. 128.
L. vulgaris. *Walt. fl. car.* p. 92.
L. stricta. *Ait. kew.* 1. p. 199.
L. bulbifera. *Bot. mag.* 104.
Icon. Bot. mag. 104. *Pluk. alm. t.* 428. f. 4.
 In wet meadows, on the side of ditches: Canada to Virginia. 2. July, Aug. *v.v.* This species is frequently found viviparous, having oblong bulbs in the axillæ of the leaves; but this is not a general case.
3. *L. glabra; caule simplicissimo punctato, foliis oppositis sessilibus late-lanceolatis acutis punctatis, pedunculis lateralibus elongatis, floribus capitatis congestis. capitata.*
L. thyrsiflora? *Mich. fl. amer.* 1. p. 127.
 In salt-marshes, near New York. 2. June, July. *v.v.* Though nearly approaching to *L. thyrsiflora*, it is certainly a distinct species.
4. *L. pubescens; foliis subsessilibus quaternis quinisque quadrifolia.*
 ovalibus acuminatis punctatis, pedunculis quaternis unifloris, corollæ laciniis ovalibus integris.—*Willd. sp. pl.* 1. p. 818.
L. punctata. *Walt. fl. car.* p. 92.
Icon. Pluk. alm. t. 428. f. 4. *Lam. illustr. t.* 101. f. 2.
 In dry woods: Canada to Carolina. 2. June, July. *v.v.* It varies sometimes with smooth leaves and verticillated flowers.
5. *L. glaberrima, ramosissima; foliis oppositis sessilibus li-* *longifolia.*

nearibus longissimis : superioribus quaternis, pedunculis quaternis unifloris, corollæ laciniis ovatis acuminatis serrulatis.

L. quadriflora. *Bot. mag.* 660.

In wet woods, near ponds : Pennsylvania to Virginia.

¶. June—Aug. *v. v.* A handsome plant, with showy flowers.

heterophylla. 6. *L. glabra, gracilis* ; foliis oppositis linearibus sessilibus, basi ciliatis, imis suborbiculatis brevi-petiolatis, floribus cernuis. *Mich. fl. amer.* 1. *p.* 127.

Icon. *Pink. alm.* t. 333. *f.* 1.

In wet meadows : Virginia to Georgia ; rare. ¶. July. *v. v.* Flowers resembling those of *L. ciliata*.

hybrida. 7. *L. glabra* ; foliis oppositis petiolatis lanceolatis utrinque acutis, petiolis ciliatis, floribus cernuis, corollis calyce brevioribus : laciniis crenulatis.—*Mich. fl. amer.* 1. *p.* 126.

L. ciliata. *Walt. fl. car.* *p.* 92.

L. angustifolia. *Lam. illustr.* 1. *p.* 440.

On banks of rivers, where the tide overflows : Pennsylvania to Carolina ; rare. ¶. June—Aug. *v. v.*

ciliata. 8. *L. subpubescens* ; foliis oppositis longe petiolatis, subcordato-ovalibus margine pubescentibus, petiolis ciliatis, pedicellis subgeminis, floribus cernuis, corollæ laciniis rotundatis, acuminatis crenatis.—*Mich. fl. amer.* 1. *p.* 126.

Icon. *Walth. hort.* t. 12.

In shady woods, in rich soil. ¶. June—Aug. *v. v.*

168. DODECATHEON. *Gen. pl.* 261.

Meadia. 1. *D. foliis oblongo-ovalibus repando-dentatis, umbellis multifloris laxis, bracteis ovalibus.*—*Willd. sp. pl.* 1. *p.* 808.

Icon. *Bot. mag.* 12. *Lam. illustr.* t. 99.

On river sides, in rocky shady situations : Pennsylvania to Virginia, and on the Missouri. ¶. May. *v. v.* Flowers extremely handsome, purple.

integrifolium. 2. *D. foliis subspathulatis integerrimis, umbellis paucifloris strictis, bracteis linearibus.* *Mich. fl. amer.* 1. *p.* 123.

Icon. *Pluk. alm.* t. 79. *f.* 6.

In the Allegany mountains, in shady woods near rivers. ¶. June. *v. v.* Flowers pale blue, smaller than the former species.

169. PRIMULA. *Gen. pl.* 258.

1. *P. pusilla*, glabra; foliis ovali-spathulatis subdentatis, *mistassinica*.
 scapo elongato, umbella pauciflora, corollæ limbo reflexo, lacinus cuneato-oblongis obtuse bifidis, capsula oblonga exerta. *Mich. fl. amer.* 1. p. 124.
 On lake Mistassins, and Hudson's Bay. *Michaux.* 4. +.

170. ANDROSACE. *Gen. pl.* 257.

1. *A. tenuissime pubescens*; foliis involucrisve oblongo-spathulatis integerrimis, perianthiis angulatis, capsulis calyce brevioribus. *occidentalis*.
 On the banks of the Missouri. *Nuttall.* ☉. *v. s. in Herb. Nuttall.* Approaches near to *A. elongata*, according to specimens of Pallas's in the Herbarium of A. B. Lambert, Esq.

171. SABBATIA. *Adanson. Parad. lond. t.* 32.

1. *S. debilis*; ramis laxis elongatis 1-floris, foliis lineari-ellipticis, calycis laciniis linearibus corollam subæquantibus, lacinus corollæ obovatis, caule angulato.—*Parad. lond. t.* 32. *gracilis*.

Chironia gracilis. *Mich. fl. amer.* 1. p. 146.

Chironia campanulata. *Linn. sp. pl.* 272.

In wet pastures, on the banks of rivers: Canada. *Kalm.* Pennsylvania to Carolina. ♂. July, Aug. *v. v.* Flowers rose-coloured, segments of the corolla obovate.

2. *S. erecta*; ramis dichotomis elongatis 1-floris, foliis lanceolatis acutis, calyce subulato corollæ semibreuiore, laciniis corollæ obovatis, caule tereti. *stellaris*.

Icon. *Bartram ic. ined. t.* 13. in *Musæo Banksiano*.

In salt marshes: New York, New Jersey, &c. ♂. Aug. *v. v.* The flowers are large and of a beautiful rose colour, with an elegant yellow star in the centre, which is surrounded by a deep red border; this plant is extremely shy of cultivation, though very desirable for that purpose. It varies with white flowers.

3. *S. erecta*; foliis ovatis amplexicaulibus, pedunculis elongato-corymbosis, calyce corollæ semibreuiore, laciniis lanceolatis, caule marginato-quadrangulo. *angularis*.

Chironia angularis. *Willd. sp. pl.* 1. p. 1067.

In shady woods, on grassy hills: Canada to Carolina. ♂. July, Aug. *v. v.* It varies with longer and

shorter, broader and narrower leaves. Flowers a purplish red. It is used by the inhabitants in the same way as *Chironia Centaurium* is used in Europe.

- calycosa.* 4. *S. erecta, foliosa; foliis oblongo-obovalibus, floribus solitariis subseptempartitis, calyce foliaceo corollam superante, laciniis oblanceolatis. Mich. fl. amer. 1. p. 147.*

Chironia dichotoma? Walt. fl. car. 95.

Icon, *Bartram ic. ined. t. 10. in Musæo Banksiano.*

In wet meadows: New York to Carolina. ♂. Aug. v. v. Flowers dark rose-coloured, segments of the corolla obovate.

- chloroides.* 5. *S. debilis; foliis lanceolatis erectis, ramis paucis unifloris, floribus 7—13-partitis amphoribus, laciniis calycis linearibus corollæ brevioribus.*

Chironia chloroides. Mich. fl. amer. 1. p. 147.

Chironia dodecandra. Walt. fl. car. 95.

Chlora dodecandra. Linn. syst. veg. 299.

In bogs: New York to Carolina. ♂. Aug. Sept. v. v. Flowers rose-coloured, large.

- paniculata.* 6. *S. erecta; foliis lanceolato-linearibus, panicula multiflora brachiata subfastigiata, calyce subulato corolla triplo-breviore, caule quadrangulo.*

Chironia paniculata. Mich. fl. amer. 1. p. 146.

Swertia difformis. Willd. sp. pl. 1. p. 1330.

- latifolia.* α. *S. foliis brevi-ovatis, paniculis paucifloris.*

Chironia lanceolata. Walt. fl. car. 95.

- angustifolia.* β. *S. foliis linearibus, panicula corymbosa multiflora.*

In bogs and cedar swamps: New Jersey and Carolina. ♀. July, Aug. v. v. Flowers white. This certainly is the long lost *Swertia difformis*, as the specimens in the Herbarium of Clayton, now in possession of Sir Joseph Banks, sufficiently prove.

172. HOTTONIA. Gen. pl. 265.

- palustris.* 1. *H. floribus verticillatis subsessilibus, caule geniculato, geniculis inflatis. Willd. sp. pl. 1. p. 812.*

In stagnant waters of New Jersey and Virginia. ♀. July. v. v. Whether this is only an accidental variety or a distinct species, I cannot now decide; but certainly the habit of the plant, as well as its smaller flowers, indicate that it may, by further examination, turn out a new species.

173. MENYANTHES. *Gen. pl.* 299.

1. *M. foliis ternatis*. *Willd. sp. pl.* 1. p. 811. *trifoliata.*
Icon. Engl. bot. 495. *Fl. dan.* 541. *Lam. illustr. t.* 100.
f. 1.
 In bogs and stagnant waters: New Jersey, Virginia, Canada. *¶*. June, July. *v. v.* Flowers pale red, very handsome.

174. VILLARSIA. *Gmel. syst. veg.* 447.

1. *V. foliis reniformibus subpeltatis, subtus lacunosis nantibus, petiolis floriferis, corollis glabris*. *Vent. choix de plant.* p. 9. *lacunosa.*
V. aquatica. *Gmel. syst. veg.* 447.
Menyanthes trachysperma. *Mich. fl. amer.* 1. p. 126.
Anonymos aquatica. *Walt fl. amer.* 109.
 In ponds and lakes, floating: New Jersey to Carolina.
¶. June, July. *v. v.* Flowers white.

175. SPIGELIA. *Gen. pl.* 272.

1. *S. caule tetragono, foliis omnibus oppositis*. *Willd.* *marilandica.*
Icon. Bot. mag. 80.
 On the edges of woods, in rich moist soil: Maryland to Carolina. *¶*. July, Aug. *v. v.* A beautiful perennial, with large scarlet flowers. The roots are sold, under the name of *Worm-grass* or *Pink-root*, in the shops, and are really a most excellent medicine for children, when troubled with worms.

176. OPHIORRHIZA. *Gen. pl.* 273.

1. *O. caule acutangulo, foliis sessilibus, cyma longius pendunculata*. *Mich. fl. amer.* 1. p. 148. *Willd. sp. pl.* 1. p. 826. *Mitreola.*
Cynoctenium sessilifolium. *Gmel. syst. veg.* 443.
Anonymos sessilifolia. *Walt. fl. car.* 108.
β. C. petiolatum. *Gmel. & Anonymos petiolata*. *Walt.*
Icon. Swartz obs. t. 3. *f.* 2. *Lam. illustr. t.* 107. *f.* 1.
 In dry gravelly fields, on wood sides: Lower Virginia to Carolina. *¶*. July. *v. v.* Flowers pale blue, small.
 I strongly suspect that Swartz's plant and Michaux's are two distinct species.

177. PHACELIA. *Juss. Gen. pl.* 144.

- bipinnatifida.* 1. *P. erecta*; foliis pinnatifidis, laciniis inciso-lobatis, racemis plerumque bifidis oblongis multifloris, laciniis corollæ integerrimis.—*Mich. fl. amer.* 1. p. 134.
Icon. *l. c. t.* 16.
In the western countries, principally on the Allegany mountains: Pennsylvania to Virginia. May, June. *v. v.* Flowers blue.
- heterophylla.* 2. *P. erecta*, hispida; foliis petiolatis pinnatifidis, laciniis lanceolatis integerrimis nervosis: impari elongata: floralibus simplicibus lanceolatis petiolatis, racemis bifidis densifloris, laciniis corollæ integerrimis.
On dry hills on the banks of the Kooskoosky. *M. Lewis.* ♂. June, July. *v. s. in Herb. Lewis.* Flowers pale blue.
Caulis erectus, ramosus: rami elongati. *Folia* petiolata: inferiora pinnatifida: laciniis lateralibus lanceolatis, 1–2 jugis: lacinia terminali longo-lanceolata: superiora et ramea simplicia, lanceolata. *Petioles* marginati. *Racemi* terminales pedunculati dichotomi, spirales, secundi. *Pedicelli* brevissimi. *Calyx* laciniis linearibus. *Corolla* subcampanulata, calyce duplo longior: laciniis oblongis, obtusis, integerrimis. *Filamenta* corollæ duplo longiora. *Stylus* staminibus longior, bifidus.
- fimbriata.* 3. *P. assurgens*, pilosa; foliis sessilibus pinnatifidis: laciniis lanceolatis acutis integris supra hispidopilosis, subtus glabris: racemis solitariis, pedicellis elongatis, laciniis corollæ ciliato-fimbriatis.—*Mich. fl. amer.* 1. p. 134. *excl. syn. Pluk.*
On high mountains in Carolina. *Michaux.* Near Harper's Ferry, on the Potowmac; collected by myself. ☉. May, June. *v. v.* Flowers beautiful blue. Michaux mentions white flowers, which I consider a mistake, though there may be a white variety.
- parviflora.* 4. *P. diffusa*, pubescens; foliis subsessilibus pinnatifidis: laciniis oblongis obtusiusculis integris, racemis solitariis, pedicellis brevibus, laciniis corollæ rotundatis integerrimis.
Polemonium foliis inferioribus hastatis, superioribus lanceolatis. *Gronov. fl. vng.* p. 29.
Polemonium dubium. *Willd. sp. pl.* 1. p. 887.
Icon. *Pluk. alm. t.* 245. f. 5.

On rocks, near Harper's Ferry, on the Potowmac. ☉.
May. *v. v.* Flowers pale blue, not one fourth the
size of the former species.

178. ELLISIA. *Gen. pl.* 268.

1. *Ellisia*. *Willd. sp. pl.* 1. p. 815.

Nyctelea.

Icon. *Lam. illustr. t.* 97. *Moris. hist.* 3. s. 11. t. 28. f. 3.

On the banks of the Potowmac : Virginia. ☉. May,
June. *v. v.* Flowers white, very small.

179. DATURA. *Gen. pl.* 332.

1. *D. pericarpis spinosis erectis ovatis, foliis ovatis glabris.* *Stramonium.*
Willd. sp. pl. 1. p. 1008.

Icon. *Fl. dan.* 436. *Engl. bot.* 1288. *Lam. illustr.* 123.

Among rubbish and on road sides : common. ☉. June,
July. *v. v.* Flowers white.

2. *D. pericarpis spinosis erectis ovatis, foliis cordatis glabris*
dentatis. *Willd. sp. pl.* 1. p. 1008.

Tatula.

On road sides ; not so frequent as the former. ☉. June,
July. *v. v.* Flowers blue.

180. HYOSCYAMUS. *Gen. pl.* 333.

1. *H. foliis amplexicaulibus sinuatis, floribus sessilibus.*

niger.

Willd. sp. pl. 1. p. 1010.

Icon. *Engl. bot.* 52.

On way sides and among rubbish : Pennsylvania, New
York, near Oswego town, &c. Probably introduced
from Europe. ☉. June, July. *v. v.* Flowers yel-
low, with purple veins.

181. NICOTIANA. *Gen. pl.* 334.

1. *N. foliis lanceolato-ovatis sessilibus decurrentibus, flo-*
ribus paniculatis acutis. *Willd. sp. pl.* 1. p. 1014.

Tabacum.

Icon. *Blackw. t.* 146. *Lam. illustr.* 113.

In cultivated grounds, frequently found in a wild state ;
introduced. ☉. July. *v. v.* Flowers red.

2. *N. foliis oblongo-ovatis petiolatis, floribus in summitate*
ramulorum sparsis solitariis, corollis infundibuliformi-
bus, laciniis oblongis acutiusculis, capsulis subglobosis
4-valvibus. *quadri-valvis.*

Cultivated and spontaneous on the Missouri ; principally
among the Mandan and Ricara nations. ☉. July.
v. v. ; *v. s. in Herb. Lewis. nec non Nuttall.* Flowers
white, with a tinge of blue. The tobacco prepared

from it is excellent. The most delicate tobacco is prepared by the Indians from the dried flowers.

182. VERBASCUM. *Gen. pl.* 331.*Thapsus.*

1. *V. foliis decurrentibus utrinque tomentosis, caule simplicii.* *Willd. sp. pl.* 1. p. 1001.

Icon. Engl. bot. 549. *Fl. dan.* 631.

On road sides and in neglected fields; common: probably introduced. ♂. July, Aug. *v. v.* A singular circumstance frequently struck my attention, respecting this plant, as it appears in great abundance in fields newly cleared and burnt in the most remote part of the country, where sometimes not a plant of it is found within the compass of more than a hundred miles. How the seed is brought there I cannot imagine.

Lychnitis.

2. *V. foliis ovatis acutis crenatis subtus tomentoso-incanis, spicis laxis lateralibus et terminalibus.*—*Willd. sp. pl.* 1. p. 1003.

Icon. Fl. dan. 586.

On the banks of the Delaware near Philadelphia. ♂. June, July. *v. v.* Flowers yellow, as all the rest here mentioned, smaller than the former species.

Blattaria.

3. *V. foliis amplexicaulibus obovato-oblongis serratis glabris, pedicellis solitariis unifloris.*—*Willd. sp. pl.* 1. p. 1005.

Icon. Engl. bot. 393.

In fields and on road sides; frequent. ♂. June, July. *v. v.* Flowers yellow. There frequently occurs a variety with white flowers, which are larger and sweet scented.

Claytoni.

4. *V. foliis amplexicaulibus sub lanceolato-oblongis: caulibus inciso-crenatis: crenis crenulatis, pedicellis solitariis unifloris.*—*Mich. fl. amer.* 1. p. 148.

In woods and fields: Virginia to Carolina. ♂. June, July. *v. v.* Flowers yellow, and larger than the third species.

183. CALYSTEGIA. *Brown fl. nov. holl.* p. 483.*Scpium.*

1. *C. volubilis; foliis sagittatis acutissimis: postice obtusis truncatisve integris, bracteis acutis calyce longioribus dimidio corollæ brevioribus, pedunculo angulato petiolum superante.* *Brown l. c.*

Convolvulus Sepium. Willd. *sp. pl.* 1. p. 844.

Convolvulus repens. Linn. *sp. pl.* p. 158. monente Cl. Brown.

Convolvulus repens. Mich. *fl. amer.* 1. p. 137.

Convolvulus lactescens foliis sagittatis, radice longa alba perenni. Gron. *fl. virg.* p. 28.

Icon. *Engl. bot.* 313. *Fl. dun.* 458.

In hedges and bushes, sometimes trailing on the ground: Canada to Carolina. ♀. June, July. v. v. Flowers pale red, white with a red border or a beautiful crimson, as figured in the Botanical Magazine, No. 732.

2. *C. erecta*, tomentosa; foliis oblongo-lanceolatis acuminatis cordatis: postice obtusis, pedunculis unifloris elongatis, bracteis ovatis acutis, laciniis calycis lanceolatis, caule inferne florifero. *tomentosa.*

Convolvulus stans. Mich. *fl. amer.* 1. p. 136.

On dry rocky hills: Canada to Virginia; rare. ♀. June, July. v. v. Flowers white, large.

3. *C. erecta*, pubescens; foliis subcordato-ovalibus obtusis, pedunculis unifloris foliis brevioribus, bracteis ovatis acutis, caule superne florifero. *spithamæa.*

Convolvulus spithamæus. Willd. *sp. pl.* 1. p. 873.

On dry hills: Pennsylvania to Carolina; rare. ♀. June, July. v. v. Flowers white.

184. CONVOLVULUS. *Gen. pl.* 287.

1. *C. humifusus*, pubescens; foliis lanceolato-oblongis linearibus oblongisve obtusis mucronatis subsessilibus, pedunculis foliis longioribus 1—5-floris, corolla brevi campanulata, stylo bipartito.—Mich. *fl. amer.* 1. p. 137. *trichosanthes.*

- α. *C. filiformis*, suberectus; foliis linearibus mucronatis, pedunculis patentissimis folio longioribus. *patens.*
Lam. illustr. 1. p. 453.

C. aquaticus. Walt. *fl. car.* 94.

- β. *C. volubilis*; foliis oblongo-ellipticis obtusis mucronatis subsessilibus, pedunculis foliis longioribus subbifloris. *tenellus.*
Lam. illustr. 1. p. 459.

C. humistratus. Walt. *fl. car.* p. 94.

Icon. *Pluk. alm. t.* 166. *f.* 4.

In sandy woods: Virginia to Georgia. ☉. June, July. v. v. Flowers white, small.

2. *C. repens*, tuberosa; foliis cordatis hastatis anguloso-lo- *Batatas.*

batis quinquenervibus glabriusculis, pedunculis longis, floribus fasciculatis, calycis glabri laciniis lanceolatis acuminatis, corolla campanulata.—*Mich. fl. amer.* 1. p. 138. *Willd. sp. pl.* 1. p. 853.

Cultivated throughout America. $\mathcal{U}$. July. *v. v.* Flowers white, red, and sometimes purple. *Vid. Catesb. car.* 2. t. 60. There are a number of varieties, as is the case with most cultivated plants.

obtusilobus. 3. *C. prostratus*, glaber; foliis crassis sinuato-lobatis, lobis rotundato-obtusis: impari majore emarginato, pedunculis unifloris, laciniis calycis oblongo-ovalibus, corolla brevi-campanulata.—*Mich. fl. amer.* 1. p. 139.

On the sandy beach of Georgia and Florida. *Michaux.* $\mathcal{U}$. +.

sagittifolius. 4. *C. volubilis*, glaberrimus; foliis oblongo-sagittatis: sinu profundissimo; auriculis subacuminatis, pedunculis unifloris, laciniis calycis rotundato-ovalibus, corolla infundibuliformi-campanulata.—*Mich. fl. amer.* 1. p. 138. *C. speciosus.* *Walt. fl. car.* p. 93.

Icon. Catesb. car. 1. t. 35.

In wet situations, among bushes: Virginia to Carolina. $\mathcal{U}$. June, July. *v. v.* Flowers of a beautiful rose-colour, large.

panduratus. 5. *C. volubilis*, pubescens; foliis lato-cordatis integris lobatisve panduriformibus, pedunculis longis, floribus fasciculatis, calycibus glabris muticis, corollis subulato-campanulatis. *Mich. fl. amer.* 1. p. 138. *Willd. sp. pl.* 1. p. 850.

Icon. Dill. elth. t. 85. f. 99.

In sandy fields and among bushes: Canada to Carolina. $\mathcal{U}$. June—Aug. *v. v.* Flowers white, with a red bottom. There is a variety with double flowers, cultivated in the gardens of America, which is a singular circumstance in this genus. The root in some instances grows to an enormous size; I have seen one the thickness of a man's thigh, and more than two feet long. Taken in the place of Jalap, it has the same effect, only in a less degree.

arvensis. 6. *C. volubilis*, glaber; foliis sagittatis utrinque acutis, pedunculis subunifloris, bracteis minutis a flore remotis. *Smith. fl. brit.* 1. p. 232.

Icon. Engl. bot. 312. *Fl. dan.* 459.

In meadows: Virginia. *Gron. fl. virg.* 27. $\mathcal{U}$. June, July. Flowers rose-coloured. I never observed this

species in any part of North America, and take it only on the authority of Gronovius.

165. IPOMŒA. *Gen. pl.* 288.

1. *I. foliis pinnatifidis linearibus, floribus subsolitariis, corollis tubulosis.* *Willd. sp. pl.* 1. p. 879. *Quamoclit.*
Icon. Bot. mag. 244.
 In cultivated grounds, near gardens : Virginia and Carolina. ☉. July, Aug. *v. v.* Flowers scarlet or white ; a most delicate and handsome plant.
2. *I. pubescens ; foliis cordatis acuminatis subangulatis, pedunculis sub-5-floris, calycibus aristatis, corollis tubulosis : limbo subintegro.*—*Mich. fl. amer.* 1. p. 140. *Willd. sp. pl.* 1. p. 880. *coccinea.*
Icon. Bot. rep. t. 99. *Bot. mag.* 221.
 On banks of rivers : Virginia to Georgia, and Louisiana. ☉. June, July. *v. v.* Flowers yellowish-scarlet.
3. *I. caule, petiolis pedunculisque pilosissimis ; foliis glabris 7-partito-lobatis : laciniis sinuatis, pedunculis unifloris, laciniis calycis ovalibus, corollis campanulatis.* *dissecta.*
Icon. Jacq. hort. t. 159. *Willd. phytog.* 1. t. 2. f. 3.
Convolvulus dissectus. *Willd. sp. pl.* 1. p. 864. *Mich. fl. amer.* 1. p. 139.
 On calcareous hills : Georgia and Florida. *Michaux.* 2. h. July. *v. v. in Hortis.*
4. *I. glabriuscula ; foliis profunde sublanceolato-3-lobis integris, pedunculis subbifloris, laciniis calycis ovalilanceolatis pilosis, corollis brevibus, capsulis pilosis.* *carolina.*
Convolvulus carolinus. *Mich. fl. amer.* 1. p. 139.
Icon. Catesb. car. t. 87 ?
 In hedges : Carolina. ☉. June—Aug. *v. v.* Flowers pale purple.
5. *I. glabra ; foliis cordatis acuminatis scrobiculatis basi angulatis, pedunculis brevibus subunifloris, calycibus pilosis, corollis tubulosis brevibus, capsulis pilosis.*—*Mich. fl. amer.* 1. p. 140. *Willd. sp. pl.* 1. p. 881. *lacunosa.*
Icon. Dill. elth. t. 87. f. 102.
 In Carolina and Florida. *Michaux.* ☉. June, July. *v. v.* Flowers white, with a purple rim.
6. *I. glaberrima ; foliis cordatis integris seu angulatis, pedunculis 1—3-floris, calycibus aristatis, corollis indivisis : tubo longissimo.*—*Willd. sp. pl.* 1. p. 882. *Bona nox.*

Icon. *Bot. mag. t. 752. Jacq. hort. 1. t. 36.*

On river sides: Carolina and Florida. ☉. July, Aug. *v. v.* Flowers white, very large.

- tamnifolia.* 7. *I. hirsuta*; foliis cordatis acuminatis, floribus aggregato-capitatis involucreatis: bracteis linearibus, corollis brevi-tubulosis: limbo patente, capsulis glabris.—*Willd. sp. pl. 1. p. 885.*

Icon. *Dill. elth. t. 318. f. 414.*

In hedges: Carolina. ☉. July, Aug. *v. v. in Hortis.* Flowers blue, very small.

- purpurea.* 8. *I. pubescens*; foliis cordatis integris, pedunculis 2—5-floris: pedicellis cernuis incrassatis, laciniis calycis lanceolatis, capsulis glabris.

Convolvulus purpureus. Willd. sp. pl. 1. p. 852.

Icon. *Bot. mag. 113.*

About gardens, frequent. ☉. June—Aug. *v. v.* Flowers very variable in colour.

- Nil.* 9. *I. hirsuta*; foliis ventricoso-trilobis, pedunculis brevibus 1—2-floris, bracteis subulatis, calycibus villosissimis longissime acuminatis.

Convolvulus Nil. Willd. sp. pl. 1. p. 851. Mich. fl. amer. 1. p. 139.

Icon. *Bot. mag. t. 188. Dill. elth. t. 80. f. 91 et 92.*

Near gardens and in hedges, on river sides: Virginia to Carolina. ☉. June—Aug. *v. v.* Flowers beautiful pale blue, only open early in the morning, from which it has been called *Morning-glory*.

- ciliosa.* 10. *I. glabra*; foliis eximie cordatis margine subciliatis, pedunculis longis unifloris, calycis ebracteati laciniis lato-ovalibus obtusis, corollis tubulato-campanulatis.

Convolvulus ciliatus. Mich. fl. amer. 1. p. 137.

Near Knoxville in Tennessee. *Michaux. +.*

- Jalapa.* 11. *I. pubescens*; foliis cordatis integris lobatisque plicatocrugosis subtus subtomentosis, pedunculis 1—3-floris, foliolis calycis ovalibus muticis, corollis campanulatis, seminibus prolixè lanuginosis, radice crassissimo.

Convolvulus Jalapa. Willd. sp. pl. 1. p. 860.

Ipomœa macrorhiza. Mich. fl. amer. 1. p. 141.

Icon. *Desfont. in ann. mus. hist. nat. 2. t. 40 et 41.*

Near the sea shore of Georgia and Florida. ♀. June, July. *v. v.* Flowers white, very large.

Obs.—This very interesting plant was first discovered in Georgia by Michaux. After this I frequently have received seeds and roots from Georgia myself; but

little did I suspect it to be the true *Convolvulus Jalapa*, till two circumstances convinced me thereof. The first was seeing a paper on this subject in the *Annales du Museum d'Histoire Naturelle*, by Desfontaines; and the other, on seeing the living plant recently raised out of a collection of seeds brought from Mexico, in possession of A. B. Lambert, Esq., which in every respect proved to be *Convolvulus Jalapa* of Linnæus, as well as *Ipomœa macrorrhiza* of Michaux, with only the small difference of colour, which was a light purple: but this is of no consequence in this family of plants.

186. CANTUA. *Juss. gen. pl.* 152.

1. *C. glabriuscula*; foliis pinnatifidis, floribus terminalibus *coronopifolia*.
laxe racemosis pedunculatis, laciniis corollæ amplis
subrotundis breviusculis, stylo exerto.—*Willd.*
sp. pl. 1. p. 879.

Polemonium rubrum. *Linn. sp. pl. ed.* 3. p. 231.

Ipomœa rubra. *Linn. syst. reg.* 171.

Ipomopsis elegans. *Michx. fl. amer.* 1. p. 142.

Gilia coronopifolia. *Pers. ench.* 1. p. 187.

Icon. Bot. rep. 415. *Exot. bot.* 13. *Dill. elth. t.* 241.
f. 312.

On river sides, in sandy soil: Carolina. ♂. June, July.
v. v. Flowers beautiful red.

2. *C. pubescens*; foliis tenuissime pinnatifidis, floribus terminalibus lateralibusque aggregato-subcapitatis subsessilibus, laciniis corollæ angustatis oblongis sensim acutis, stylo incluso brevissimo. *aggregata*.

On the banks of the Mississippi. *M. Lewis*. ♂. June.
v. s. in Herb. Lewis. Flowers scarlet, more slender
than the former species; the segment of the corolla
not spreading, but erect, and small in proportion to
the tube.

187. DIAPENSIA. *Gen. pl.* 255.

1. *D. foliis spathulatis glabris, antheris obliquis muticis.* *obtusifolia*.
Salisb. parad. lond. 104.

D. lapponica. *Willd. sp. pl.* 1. p. 795.

Icon. Fl. dan. 47. *Bot. mag.* 1108.

On the highest mountains, among moss: New Hampshire.
4. May—July. *v. s. in Herb. Prof. Peck*.
Flowers white.

- cuneifolia.* 2. *D. foliis lanceolato-cuneatis inferne pubescentibus, antheris horizontalibus basi rostratis. Salisb. parad. lond. 104.*
D. americana. Mus. Banks.
Pyxidanthera barbulata. Mich. fl. amer. 1. p. 152.
Icon. Mich. l. c. t. 17. Salisb. parad. lond. 104.
 On high mountains in North Carolina. *Michaux.* On the White mountains of New Hampshire. *Prof. Peck.* Plentifully on the pine-barrens of New Jersey near the sea coast, &c. $\frac{1}{2}$. June—Aug. *v. v.* Flowers small, white.

188. PHLOX. *Gen. pl. 284.*

- paniculata.* 1. *P. erecta, glabra; foliis lanceolatis sensim angustatis planis margine asperis, corymbis paniculatis, corollæ laciniis rotundatis, calycibus aristatis.—Willd. sp. pl. 1. p. 829.*
Icon. Mill. ic. t. 205. f. 2. Dill. elth. t. 166. f. 203.
 In rich moist meadows: Virginia and Lower Carolina. $\frac{1}{2}$. July—Sept. *v. v.* Flowers purple; stem from three to four feet high.
- undulata.* 2. *P. erecta, glabra; foliis oblongo-lanceolatis subundulatis margine scabris, corymbis paniculatis, corollæ laciniis obovatis subretusis, calycibus aristatis.—Willd. sp. pl. 1. p. 840.*
P. paniculata. Mich. fl. amer. 1. p. 144.
 In high mountains and meadows of Virginia and Carolina. $\frac{1}{2}$. July, Aug. *v. v.* A beautiful plant, resembling the former species, but taller; flowers the same colour.
- pyramidalis.* 3. *P. erecta, glabra; caule scabro, foliis cordato-ovatis acutis, panicula fastigiata pyramidali, corollæ laciniis cuneato-truncatis, dentibus calycinis suberectis lanceolatis acutis.—Smith exot. bot. 2. p. 55.*
P. carolina. Walt. fl. car. 96.
Icon. Smith l. c. t. 87.
 In mountain meadows: Pennsylvania to Carolina. $\frac{1}{2}$. June—Aug. *v. v.* Flowers beautiful purple; plant not so tall as the two former species.
- latifolia.* 4. *P. erecta, glabra; caule lævi, foliis cordato-ovatis, floribus fastigiato-corymbosis, corollæ laciniis suborbiculatis, dentibus calycinis lanceolatis vix acuminatis.—Mich. fl. amer. 1. p. 143.*
 An eadem cum priori?

In shady wet places, mossy woods, among Sphagnum :
Carolina. *Michaux.* 2. +. Flowers purple, large.

5. *P. erecta*; caule scabro maculato, foliis oblongo-lanceolatis glabris margine asperis, panicula oblonga confertiflora, corollæ laciniis rotundatis, dentibus calycinis acutis recurvatis.—*Willd. sp. pl.* 1. p. 840. *maculata.*

Icon. *Jacq. hort. t.* 127.

In wet meadows : New England to Carolina. 2. July, Aug. *v. v.* Flowers purplish-violet or purple; stem spotted with brown dots.

6. *P. erecta*; caule glaberrimo immaculato, foliis ovato-lanceolatis undique lævibus, racemo paniculato, corollæ laciniis rotundatis, dentibus calycinis lanceolatis acutis erectiusculis.—*Willd. sp. pl.* 1. p. 840. *suaveolens.*

In meadows : Canada to Virginia. 2. July, Aug. *v. v.* Flowers white, sweet-scented; plant not so tall as the foregoing species.

7. *P. erecta*; caule pubescente, foliis ovato-lanceolatis lævibus, corymbis subfastigiatis, ramulis subtrifloris, corollæ laciniis rotundatis, dentibus calycis glabri lanceolatis erectis.—*Willd. sp. pl.* 1. p. 841. *carolina.*

P. triflora? *Mich. fl. amer.* 1. p. 143.

Icon. *Bot. mag.* 1344. *Mart. dec.* 1. t. 10.

In sandy wet meadows : Carolina. 2. July—Sept. *v. v.* Flowers beautiful pale purple, the size of *P. suaveolens*.

8. *P. cæspitosa*, assurgens, glabra; foliis lineari-lanceolatis lævibus, corymbo terminali subfastigiato, corollæ laciniis rotundatis, dentibus calycis mucronatis.—*Willd. sp. pl.* 1. p. 841. *glaberrima.*

Icon. *Dill. elth. t.* 166. f. 202 ?

In wet meadows of Lower Carolina, and on the mountains of Virginia. 2. June—Aug. *v. v.* Flowers deep purple.

9. *P. erecta*, glabra, frutescens, ramosissima; foliis lineari-bus, superioribus alternis basi dilatatis, racemis paniculato-corymbosis, corollæ laciniis cuneato-oblongis emarginatis, dentibus calycis subulatis tubum æquantibus. *speciosa.*

On the plains of Columbia. *M. Lewis.* 2. May, June. *v. s. in Herb. Lewis.* Flowers white, with a red or purple centre, similar to those of *Vinca rosea*, var. *alba*. They appear in such abundance, that they cover the whole shrub.

- aristata*, 10. *P. debilis*, erecta, viscidulo-pubescent; foliis lineari-lanceolatis, panícula laxa fastigiata, pedicellis subgeminatis, corollæ laciniis obovalibus: tubo curvato pubescente, dentibus calycinis longissimis subulatis.—*Mich. fl. amer.* 1. p. 144.
P. pilosa. *Bot. mag.* 1307?
virens. α. corolla roseo-purpurascens.
canescens. β. corolla albido-rosea.
 In sandy fields: Pennsylvania to Carolina. 4. May--July. *v. v.* Flowers red, or sometimes white.
- pilosa*. 11. *P. humilis*, decumbens, pubescens; foliis lineari-lanceolatis brevibus asperiusculis: summitatibus subsessiliter fasciculifloris. corollæ laciniis rotundato-obtusis: tubo stricto glabro, dentibus calycis subulato-acuminatis. *Mich. fl. amer.* 1. p. 145. *Walt. fl. car.* 96. *Willd. sp. pl.* 1. p. 840?
 Icon. *Pluk alm.* t. 98. f. 1.
amœna. β. *Bot. mag.* 1308.
 In sandy fields: Carolina and on the mountains of Georgia. 4. May--July. *v. v.* Flowers purple, sometimes white, smaller than the foregoing species. Var. β is most likely only a luxuriant garden production of this species.
- divaricata*. 12. *P. humilis*, decumbens, pubescens; foliis ovali-lanceolatis: superioribus alternis, ramulis divaricatis laxis paucifloris, corollæ laciniis subobcordatis, dentibus calycis subulato-linearibus.—*Willd. sp. pl.* 1. p. 841.
 Icon *Bot. mag.* 163. *Mill. ic. t.* 203. f. 1.
 On the mountains: Pennsylvania to Virginia. 4. May--July. *v. v.* Flowers purplish-blue; plant of low growth.
- ovata*. 13. *P. erecta*, glabra; foliis radicalibus ovatis acutis subcarnosis: caulinis lanceolatis, corymbis subfastigiatis, corollæ laciniis undulatis retusis, dentibus calycis linearibus acutis.—*Bot. mag.* 528. *Willd. sp. pl.* 1. p. 842.
 Icon. *Bot. mag.* l. c.
 In North America. 4. May--July. *v. v. in Hortis.* Flowers beautiful reddish-purple.
- stolonifera*. 14. *P. reptanti-stolonifera*, pubescens; foliis radicalibus spatulato-obovatis, caulinis ovali-lanceolatis, corymbo divaricatim paucifloro, corollæ laciniis obovatis; dentibus calycis linearibus reflexis.—*Bot. mag.* 563.
P. reptans. *Mich. fl. amer.* 1. p. 144.

Icon. *Bot. mag.* 563.

In the high mountains of Virginia and Carolina. *W.*
June—Sept. *v. v.* Flowers blue, with a purple
centre, very handsome.

15. *P. cæspitosa*, candicanti-pubescent; foliis linearibus
pungentibus ciliatis, corymbis paucifloris: pedicellis
trifidis, corollæ laciniis cuneatis emarginatis, dentibus
calycis subulatis tubo corollæ vix brevioribus.—*Willd.*
sp. pl. 1. p. 842. *subulata.*

Icon. *Bot. mag.* 411.

On dry sandy hills and rocks: New Jersey to Carolina.
W. April—June. *v. v.* Flowers pink-coloured, with
a handsome purple star in the centre.

16. *P. cæspitosa*, pubescens; foliis fasciculatis subulatis
pungentibus ciliatis, pedicellis paucis terminalibus sub-
umbellatis, corollæ laciniis cuneatis emarginatis, den-
tibus calycis subulatis tubo corollæ triplo brevioribus.
—*Willd. sp. pl.* 1. p. 842. *setacea.*

Icon. *Bot. mag.* 415.

On rocks and barren sandy hills: Virginia to Carolina.
W. May—July. *v. v.* Flowers pale rose-coloured,
with a purple star in the centre.

189. POLEMONIUM. *Gen. pl.* 289.

1. *P. foliis pinnatis septenis, floribus terminalibus nutanti-*
bus. *Willd. sp. pl.* 1. p. 886. *reptans.*

Icon. *Mill. ic.* 2. t. 209.

In the mountains, on the side of rich hills: Pennsylvania
to Carolina. *W.* April, May. *v. v.* Flowers sky-
blue; there is a variety with white flowers.

190. AZALEA. *Gen. pl.* 277.

1. *A. subnudiflora*; foliis oblongis utrinque pubescentibus: *calendulacea.*
adultis hirsutis, floribus amplis non viscosis, calycis
dentibus oblongis, corolla tubo hirsuto laciniis bre-
vioribus.—*Michx. fl. amer.* 1. p. 151.

α. *A. floribus flammeo-calendulaceis.*

flammea.

β. *A. floribus croceis.* *Bot. mag.* . . .

crocea.

α. On the banks of the Savannah river, near Two-sisters.
Michaux. On the Flint river, Georgia, &c.

β. On the highest mountains of Virginia and Carolina.
h. April, May. *v. v.* Flowers of var. *α.* a beautiful

flame colour, sometimes deep yellow mixed with scarlet, as in *Mirabilis Julapa*; var. β . bright yellow, resembling *A. pontica*. It is, without exception, the handsomest shrub in North America. Vid. *Bartram's Travels* p. 321.

- canescens*. 2. *A. subnudiflora*; foliis obovato-oblongis supra pubescentibus subtus tomentosis, nervo non setigero, floribus non viscosis, tubo laciniis vix brevior, calycis dentibus brevissimis rotundato-obtusis, staminibus vix exsertis.—*Mich. fl. amer.* 1. p. 150.
On the banks of rivers in Lower Carolina. *Michaux*.
On the mountains of Cacapoon springs near Winchester, Virginia. $\frac{1}{2}$. May, June. *v. v.* Flowers rose-coloured.
- periclymenoides*. 3. *A. subnudiflora*; foliis lanceolato-oblongis utrinque glabrescentibus, concoloribus, nervo supra lanuginoso, subtus setigero, margine ciliatis, floribus amplis non viscosis, tubo laciniis longior, calycis dentibus brevibus ovali-subrotundis, staminibus longissime exsertis, — *Mich. fl. amer.* 1. p. 151.
A. nudiflora. *Willd. sp. pl.* 1. p. 831.
- coccinea*. α . *A. floribus coccineis, foliis lanceolatis*. *Bot. mag.* 180.
rutilans. β . *A. floribus saturate rubris, calycibus minutis*. *Ait. kew.* 1. p. 319.
- carnea*. γ . *A. floribus pallide rubicundis, tubo basi rubro, calycibus foliaceis*. *Ait. l. c.*
- alba*. δ . *A. floribus albidis, calycibus mediocribus*. *Ait. l. c.*
- papilionacea*. ϵ . *A. floribus rubicundis: laciniis infima alba, calycibus foliaceis*. *Ait. l. c.*
- partita*. ζ . *A. floribus carneis usque ad basin quinquepartitis*. *Ait. l. c.*
- polyandra*. η . *A. floribus roseis brevibus 10—20-andris*.
On the side of hills: Canada to Georgia. Var. α . near Savannah, Georgia. Var. η . near Philadelphia, Pennsylvania. $\frac{1}{2}$. April—June. *v. v.* This beautiful shrub has a great many varieties, besides the above-mentioned, among which is one with double flowers; but the var. η . is the most remarkable. This variety proves clearly, that *Azalea* and *Rhododendron* are one genus, *A. procumbens* excluded, as *Rhododendron* is frequently found with less than ten, and all the species of *Azalea* with more than five stamens.
- arborescens*. 4. *A. foliosiflora*; foliis obovatis obtusiusculis utrinque glabris subtus glaucis: nervo vix setigero, margine cilia-

tis, floribus magnis non viscosis, tubo laciniis longiore, calycibus foliaceis : laciniis oblongis acutis, filamentis exertis.

A. arborea. Bart. catal.

On rivulets, near the Blue mountains : Pennsylvania. *h.* May July. *v. v.*—This beautiful species has, to my knowledge, not yet been introduced into the gardens. I have only seen it in its native place and in the garden of Mr. John Bartram, near Philadelphia, whose father introduced it many years ago. It rises from ten to twenty feet high, and forms, with its elegant foliage and large abundant rose-coloured flowers, the finest ornamental shrub I know. The flowers are not so much pubescent as the rest of the other species; the scales of the flower-buds are large, yellowish-brown, surrounded with a fringed white border.

5. *A. nudiflora* : foliis oblongis utrinque tenuissime cano-pubescentibus : nervo non setigero, floribus parvis non viscosis : tubo laciniis vix longiore, calycibus brevissimis : lacinia unica lineari reliquis quadruplo longiore, filamentis exertis, ramulis piloso-hispidis.

bicolor.

A. nudiflora bicolor. At. kew. 1. p. 319.

Icon. *Trew chret. t. 48.*

On barren, sandy hills : Carolina and Georgia. *h.* May, June. *v. v.* Flowers slender, and smaller than the rest, of a pale rose colour or nearly white, with a deep-red-coloured tube.

6. *A. foliosiflora* ; ramis hispidis, foliis oblongo-obovatis acutis utrinque glabris concoloribus : nervo setigero, margine ciliatis, floribus viscosis : tubo laciniis duplo longiore, calycis dentibus brevissimis rotundatis, filamentis corollæ vix longioribus.—*Willd. sp. pl. 1. p. 831.*

viscosa.

In swamps and shady woods : Canada to Georgia. *h.* July, Aug. *v. v.* Flowers white, sweet-scented. There are a number of varieties and even intermediate species between this and the *A. periclymenoides*.

7. *A. foliosiflora* ; ramis glabrescentibus, foliis parvis oblanceolatis submucronatis coriaceis utrinque glabris supranitidis : nervo subtus setigero, margine revolutociliatis, floribus viscosis : tubo laciniis paulo longiore, calycibus brevissimis, filamentis exertis.

nitida.

In deep mossy swamps on the mountains : New York to Virginia. *h.* June, July. *v. v.* Flowers white

with a red tinge; leaves very dark green and shining; they are smaller than in any other species.

glauc.

8. *A. foliosiflora*; ramulis hispidis, foliis oblanceolatis acutis utrinque glabris subtus glaucis: nervo setigero, margine ciliatis, floribus viscosissimis: tubo laciniis duplo longiore, calyce brevissimo, filamentis laciniis corollæ subæquantibus.—*Lam. illustr.* . p. 493.

A. viscosa floribunda. *Ait. kew.* 1. p. 319.

In swamps of a clayey soil: New England to Virginia.

h. June, July. v. v. Flowers white, very fragrant; the shrub lower than the rest, and flowering in great abundance.

hispida.

9. *A. foliosiflora*; ramis strictis hispidissimis; foliis longe lanceolatis: supra hispidis, subtus glabris; utrinque glaucis: nervo setigero, margine ciliatis, floribus viscosissimis: tubo laciniis amplis vix longiore, calycis dentibus oblongis rotundatis, filamentis exertis.

A. viscosa glauca. *Ait. kew.* 1. p. 319?

On the borders of lakes on the highest part of the Blue mountains: New York and Pennsylvania. h. July, Aug. v. v. Flowers white with a red border, and a ring of red on the tube, which makes them appear to be of a rose-colour before open. They have frequently ten stamina, as in var. *γ.* of *A. periclymenoides*. This shrub generally grows to the height of from ten to fifteen feet, very upright, and has a blueish appearance, by which it may be distinguished from all others at a great distance.

- procumbens.* 10. *A. foliosiflora*; ramis diffuso-procumbentibus, foliis oppositis ellipticis glabris margine revolutis, corollis campanulatis glabris, filamentis inclusis æqualibus.—*Willd. sp. pl.* 1. p. 832.

Icon. Fl. dan. 9. *Engl. bot.* 865.

In the alpine regions of the White mountains, New Hampshire. *Prof. Peck.* On the Grandfather mountain, Carolina. *Lyon.* h. July. v. s. in *Herb. Peck. nec non Lyon.* v. v. in *Hortis.* Flowers small, rose-coloured. This plant has so much affinity to *Ledum luxifolium*, Ait. that I have scarcely been able to persuade myself that they are distinct plants. Comparing specimens of different varieties of the latter, with those of *A. procumbens* from different countries, in the herbarium of A. B. Lambert, Esq. I could find no other distinction between both, than that of the

Ledum being an upright little shrub, with decandrous flowers which are white, whereas the present species has procumbent stems and pentandrous red flowers. It most certainly ought to be taken from this genus, or else all the rest but this one united with *Rhododendron*.

191. BUMELIA. *Gen. pl.* 1736.

1. *B. spinosa*, erecta; foliis deciduis lato-lanceolatis utrinque glabris, pedunculis aggregatis unifloris, laciniis corollæ trifidis.—*Mich. fl. amer.* 1. p. 122.
Sideroxylum lycioides. Willd. sp. pl. 1. p. 1090.
Sideroxylum læve. Walt. fl. car. 100.
Icon. Duham. arb. 2. t. 68.
 In shady woods: Carolina and Georgia. $\bar{h}$. July. Aug. *v. v. s. fl.* A small tree, with minute greenish flowers. *lycioides.*
2. *B. spinosa*, dumosa, diffuse reclinata; ramis sterilibus divaricato-ramosis, foliis parvis obovalibus glaberrimis. *Pers. syn.* 1. p. 237.
Sideroxylum reclinatum. Mich. fl. amer. 1. p. 122.
Icon. Vent. choix de plant. t. 22
 On the banks of rivers in Georgia. *Michx.* $\bar{h}$. July, Aug. *v. v. s. fl.* A small straggling shrub. *reclinata.*
3. *B. subspinosa*; ramulis patentissimis pubescentibus, foliis ovali-lanceolatis, supra glabris, subtus lanuginosis. *Pers. syn.* 1. p. 237.
Sideroxylum lanuginosum. Mich. fl. amer. 1. p. 122.
Sideroxylum tenax. Walt. fl. car. 100.
 In wet copses of Georgia. *Michaux.* $\bar{h}$. +. *lanuginosa.*
4. *B. subspinosa*; foliis euneato-lanceolatis plerumque obtusis, subtus sericeo-nitentibus. *Pers. syn.* 1. p. 237.
Willd. sp. pl. 1. p. 1085.
Sideroxylum tenax. Linn. syst. veg.
Sideroxylum sericeum. Walt. fl. car. 100.
Sideroxylum chrysophylloides. Mich. fl. amer. 1. p. 123.
 In hedges and copses near the sea-coast of Carolina and Georgia. $\bar{h}$. June. *v. v.* A small tree; leaves very handsome. *chrysophylloides.*
5. *B. inermis*; foliis sempervirentibus oblongo-lanceolatis utrinque acutis glabris subaculeato-serratis, racemis axillaribus sessilibus multifloris. *serrata*
 On the banks of the Missouri. *Nuttall* $\bar{h}$. July. *v. s.*
in Herb. Nuttall. Berries black, large.

192. SOLANUM. *Gen. pl.* 337.

- Dulcamara.* 1. *S. caule inermi fruticoso scandente, foliis cordatis glabris : superioribus auriculatis, corymbis oppositifoliis.* *Willd. sp. pl.* 1. p. 1028.
Icon. Fl. dan. 607. *Schmidt arb.* 146. *Engl. bot.* 565.
 On banks of rivers, in hedges : Pennsylvania. *Bartram.*
 ♀. June, July. *v. v.* Flowers violet-blue ; berries red.
- nigrum.* 2. *S. caule inermi herbaceo, ramis angulatis dentatis, foliis*
ovatis repandis glabris, racemis distichis nutantibus.
Willd. sp. pl. 1. p. 1035.
Icon. Dill. elth. t. 275. *f.* 256.
 On cultivated grounds, common. ☉. June—Aug. *v. v.*
 Flowers white ; berries black.
- mamosum.* 3. *S. caule aculeato herbaceo, foliis cordatis angulato-lo-*
batis utrinque villosis aculeatis. *Willd. sp. pl.* 1.
p. 1040.
Icon. Merian. surin. t. 27. *Pluk. alm. t.* 226. *f.* 1.
 On the sea coast of Virginia and Carolina. ☉. June—
 Aug. *v. v.* Flowers pale blue ; fruit yellow, shaped
 like a pear.
- virginianum.* 4. *S. caule erecto aculeato, foliis pinnatifidis undique acu-*
leatis, laciniis sinuatis obtusis, margine ciliatis, calyci-
bus aculeatis. *Willd. sp. pl.* 1. p. 1041.
Icon. Dill. elth. t. 267. *f.* 346. *Pluk. alm. t.* 62. *f.* 3.
 On road sides and sandy fields : Virginia to Carolina.
 ☉. July. *v. v.* Flowers blue ; berries small, green-
 ish-white.
- carolinense.* 5. *S. caule aculeato annuo, foliis hastato-angulatis acu-*
leis utrinque tectis, racemis laxis. *Willd. sp. pl.* 1.
p. 1043.
Icon. Dill. elth. 269. *f.* 348. *Jacq. ic.* 2. *t.* 331.
 On road sides and old fields : Virginia to Georgia. ♀.
 June—Aug. *v. v.* Flowers large, pale blue ; fruit
 yellow.
- heterandrum.* 6. *S. caule aculeato annuo, foliis bipinnatifidis utrinque*
hirsuto-tomentosis aculeatisque : laciniis obtusiusculis,
racemis lateralibus, antheris patulis corniformibus :
infima maxima longitudine corollæ, bacca subquadri-
loculare calyce echinato inclusa.
 On the banks of the Missouri. *Nuttall.* ☉. July. *v. s.*
in Herb. Nuttall. ; v. v. in Hortis. Flowers large,

Sclanum heterandrum.

yellow. This singular species of *Solanum* is very nearly allied to *S. cornutum*, *Juss. in Annales de Mus. hist. nat.* 3. p. 120. t. 9. and they probably will form a new genus, to which some other not properly examined species may belong.

193. PHYSALIS. *Gen. pl.* 336.

1. *P. foliis geminis subcordato-ovalibus repandis obtusis subtomentosis, caule herbaceo superne paniculato, calycibus fructiferis pubescentibus.*—*Willd. sp. pl.* 1. p. 1021. *viscosa.*
Icon. Jacq. hort. 2. t. 136. *Dill. elth. t.* 10. f. 10.
 On road sides and among rubbish: Pennsylvania to Carolina. γ . July—Aug. *v. v.* Flowers yellow; berries viscous.
2. *P. foliis quasi cordato-suborbiculatis acuminatis inæqualiter dentatis, caule herbaceo divaricato-ramosissimo: ramis angulatis.*—*Mich. fl. amer.* 1. p. 149. *obscura.*
- α . *P. summitatibus petiolisque vix pubescentibus.* *glabra.*
P. angulata. Walt. fl. car. 99.
- β . *P. viscido-pubescentis.* *pubescens.*
 In sandy fields of Lower Carolina. γ . July, Aug. *v. v.* Flowers yellow, with brown spots and blueish anthers.
3. *P. foliis geminis ovali-lanceolatis subintegris, in petiolum sensim angustatis pubescentibus, caule herbaceo dichotomo. calyce villosa.*—*Mich. fl. amer.* 1. p. 149. *lanceolata.*
 In Lower Carolina. *Michaux. \gamma*. July. *v. s. in Herb. Walt.*
4. *P. foliis ovatis subrepandis obtusis nudiusculis, caule herbaceo ramoso, pedunculis solitariis petiolis paulo longioribus.*—*Willd. sp. pl.* 1. p. 1021. *pennsylvanica.*
P. tomentosa. Walt. fl. car. 99?
 On road sides, among rubbish: Pennsylvania to Carolina. γ . June, July. *v. v.* Flowers entirely yellow.
5. *P. foliis ovatis repando-dentatis glabris, caule herbaceo ramosissimo, pedunculis solitariis petiolo multo brevioribus.* *Lam. encycl.* 2. p. 101. *philadelphica.*
 In dry places on river sides; New England to Virginia. $\odot$. July. *v. v.* Flowers larger than the foregoing species, yellow, with brown stripes.
- ζ . *P. foliis villosa-viscosis cordatis, caule herbaceo ramo-* *pubescens.*

sissimo, floribus solitariis pendulis, calycibus fructiferis subrotundo-globosis angulatis. *Willd. sp. pl.* 1. p. 1023.

Icon. *Fevil. peruv.* 3. t. 1.

On the sandy shores of Carolina. ☉. June, July. *v. v.* Flowers yellow, with brown spots; berries round, yellow.

194. NICANDRA. *Juss. gen. pl.* 140.

physaloides.

1. *Nicandra*. *Pers. syn.* 1. p. 219.

Atropa physaloides. *Willd. sp. pl.* 1. p. 1017.

Calydermos erosus. *Fl. peruv.* 2. p. 44.

Icon. *Fevil. peruv.* t. 16.

In cultivated ground, near gardens: Pennsylvania to Virginia; introduced. ☉. July, Aug. *v. v.* Flowers blue.

195. SAMOLUS. *Gen. pl.* 294.

Valerandi.

1. *S. foliis obovatis, racemis elongatis, pedicellis medio bracteatis*.—*Willd. sp. pl.* 1. p. 927.

Icon. *Fl. dan.* 198. *Engl. bot* 703.

In marshes and near springs: Canada to Carolina; frequent. ♀. July, Aug. *v. v.* Flowers white, small.

196. PINCKNEYA. *Mich. fl. amer.* 1. p. 103.

pubescens.

1. *P. foliis ovalibus utrinque acutis subtus subtomentosis*. *Mich. fl. amer.* 1. p. 105.

Icon. *Mich. l. c. t.* 13.

On the banks of the river St. Mary, Georgia. ♀. July, Aug. *v. v.* Flowers bluish-red, marked with purple lines, in large clusters. Each flower has one of the divisions of the calyx grown out to a large white leaf, tinged with red, which makes this shrub highly ornamental. It is only to be regretted, that it is very shy of cultivation. The small difference of its fruit from *Cinchona* only makes it excusable to keep it separate from that genus; but I have no hesitation in saying, that if *Pinckneya* is not united with *Cinchona*, there will be some of the latter genus found belonging to *Pinckneya*.

197. CAMPANULA. *Gen. pl.* 889.

1. *C. glabra*; foliis radicalibus reniformi-cordatis crenatis; *rotundifolia*
caulinis linearibus integris, panicula laxa pauciflora,
floribus nutantibus.—*Willd. sp. pl.* 1. p. 892.
Icon. *Fl. dan.* 855. *Engl. bot.* 866.
On rocks on the banks of the Susquehanna and in Ca-
nada. $\mathcal{U}$. July, Aug. *v. v.* Flowers azure blue, of
considerable size.
2. *C. glabra*; caule erecto-flexuoso, ramulis confertis fo- *flexuosa.*
liosis, foliis lanceolatis subremote serratis, floribus bre-
viter pedicellatis nutantibus.—*Mich. fl. amer.* 1. p. 109.
On high mountains: Virginia and Carolina. $\mathcal{U}$. Aug.
Sept. *v. v.* Flowers small, pale blue.
3. *C. glabra*, nitida, erecta; foliis membranaceis remote *divaricata.*
serratis, panicula ramulis subaphyllis divaricatis, flori-
bus nutantibus.—*Mich. fl. amer.* 1. p. 109.
On slate mountains in Virginia and Carolina. $\mathcal{U}$. July,
Aug. *v. v.* Flowers small, azure blue; a very grace-
ful perennial.
4. *C. glabra*; foliis cordatis lanceolatisque serratis, petiolis *americana.*
inferioribus ciliatis, floribus axillaribus sessilibus, co-
rollis 5-partitis planis, stylis corolla longioribus. *Willd.*
sp. pl. 1. p. 898.
In shady wet places: Pennsylvania to Virginia. $\mathcal{M}$. June,
July. *v. v.* Flowers small, pale blue, two or three
in the axillæ of the leaf, nearly sessile; plant from
two to three feet high.
5. *C. glabriuscula*, erecta; foliis ovato-lanceolatis in lon- *acuminata.*
gum acumen desinentibus subserratis, spica fasciculato-
multiflora, corollis subrotatis.—*Mich. fl. amer.* 1.
p. 108.
C. nitida. *Ait. kew.* 1. p. 346.
Icon. *Dodart. mem.* 4. t. 18.
On the high mountains of Pennsylvania and Virginia.
 $\mathcal{U}$. July, Aug. *v. v.* Flowers in size and colour re-
semble the fourth species.
6. *C. gracilis*; caule simplici angulato; angulis foliorum- *aparinoides.*
que margine et nervo retrorsum aculeatis, foliis lineari-
lanceolatis supra glabris, pedunculis paucis in summi-
tate caulis flexuosis axillaribus unifloris filiformibus.
In low inundated meadows, generally in company with
Vernonia scutellata: Pennsylvania to Virginia. $\odot$.
July. *v. v.* Flowers small, pale blue.

- perfoliata.* 7. *C. caule simplici erecto, foliis cordatis crenatis amplexicaulibus, floribus axillaribus sessilibus glomeratis.*
Willd. sp. pl. 1. p. 915.
C. amplexicaulis. Mich. fl. amer. 1. p. 108.
Icon. Moris. hist. 2. s. 5. t. 2. f. 23. Barr. rar. t. 1133.
 In cultivated grounds : common from North to South.
 ☉. May—Aug. *v. v.* Flowers small, pale blue.

198. CHIOCOCCA. *Gen. pl. 315.*

- racemosa.* 1. *C. foliis ovato-oblongis acutis planis, racemis axillaribus pedunculatis simplicibus. — Willd. sp. pl. 1. p. 975.*
Icon. Dill. elth. t. 228. f. 295. Bot. rep. t. 284.
 On the sea-shore of Georgia and Florida. *Michaux.*
 ♀. July. *v. v.* Flowers yellowish-white. It appears to differ in some respects from the West Indian plant, but can be considered nothing more than a variety.

199. CAPRIFOLIUM. *Juss. gen. pl. 235.*

- sempervirens.* 1. *C. spicæ verticillis subnudis distantibus, corollis subæqualibus : tubo superne ventricoso, foliis obovatis ovatisque subtus glaucis : summis connato-perfoliatis. — Willd. sp. pl. 1. p. 983. sub Lonicera.*
Icon. Bot. mag. 781. Schmidt arb. 104.
 In stony dry woods : New York to Carolina. ♀. May—Aug. *v. v.* Flowers a beautiful scarlet outside and yellow inside ; there are several varieties of it, particularly one with an almost upright stem.
- ciliolum.* 2. *C. spicæ verticillis approximato-capitatis subsessilibus, corollis subæqualibus : tubo hirsuto medio ventricoso, foliis subamplexicaulibus sessilibus petiolatisque ovatis subtus glaucis, margine conspicue ciliatis : summis connato-perfoliatis.*
 On the banks of the Kooskoosky. *M. Lewis.* ♀. June. *v. s. in Herb. Lewis.* Flowers of a deep yellow.
- Fraseri.* 3. *C. spicæ verticillis capitatis, corollis subringentibus : laciniis oblongis obtusis, foliis ovatis subtus glaucis cartilagineo-marginatis : summis connato-perfoliatis.*
Lonicera flava. Bot. mag. 1318.
 On the Paris mountains, South Carolina. *Fraser.* On the Catskill mountains, New York, &c. ♀. June, July. *v. v.* Flowers bright yellow.

4. *C. spicæ verticillis approximatis, corollis ringentibus : tubo elongato, foliis perennantibus obovatis submucronatis subtus reticulato-venosis pallidioribus : summis connato-perfoliatis.*—*Willd. sp. pl. 1. p. 984. sub Lonicera.*

gratum.

Icon. *Hort. angl. 15. n. 10. t. 8.*

On the mountains, rambling among rocks in shady moist situations : New York to Carolina ; rare. $\frac{1}{2}$. June—Sept. *v. v.* Flowers inclining to scarlet.

5. *C. spicæ verticillis capitatis subsessilibus, corollis breviusculis ringentibus basi gibbis, filamentis barbatis, foliis deciduis subtus glaucis : omnibus connatis : bractea perfoliata floribus multo ampliore.*—*Lam. encycl. 1. p. 723.*

parviflorum.

Lonicera dioica. Willd. sp. pl. 1. p. 983.

Lonicera media. Murr. com. goett. 1776. p. 28. t. 3.

Caprifolium bracteosum. Mich. fl. amer. 1. p. 105.

Icon. *Murr. com. goett. t. 3. Schmidt arb. 109.*

In rocky shady situations : New England to Carolina. $\frac{1}{2}$. June, July. *v. v.* Flowers yellow, smaller than in any of the foregoing species. There is a variety with purplish flowers, according to Michaux, which I never observed myself.

200. XYLOSTEUM. *Juss. gen. pl. 235.*

1. *X. baccis distinctis, foliis ovatis subcordatisque margine ciliatis : junioribus subtus villosis, corollis conspicue calcaratis : tubo superne ventricoso : laciniis brevibus acutis, stylo exerto.*

ciliatum.

Xylosteum tartaricum. Mich. fl. amer. 1. p. 106?

β . *baccis albis.*

album.

On mountains, among rocks, in rich soil : Canada to Virginia. β . On the Rocky-mountain. *M. Lewis.*

$\frac{1}{2}$. June, July. *v. v.* Flowers white, with a tinge of red or yellow. *X. tartaricum* differs materially from this species, and the diagnosis might be thus : *X. tartaricum*, baccis distinctis, foliis ovatis acutis utrinque glabris, corollis basi vix gibbosis : tubo brevi : laciniis oblongis obtusis, stylo incluso.

2. *X. baccis distinctis, ramis villosis, foliis oblongo-ovalibus obtusis utrinque subtomentoso-villosissimis, pedunculis brevibus.* *Mich. fl. amer. 1. p. 106.*

villosum.

On rocks in the mountains of Canada. *Michaux.* $\frac{1}{2}$. +. Berries blue.—Whether this is really a distinct

species from *X. vulgare*, I cannot ascertain, having never seen the plant.

201. SYMPHORIA. *Juss. Pers. syn. 1. p. 214.*

- glomerata.* 1. *S. floribus axillaribus subcapitato-glomeratis. Pers. syn. l. c.*
S. vulgaris. Mich. fl. amer. 1. p. 106.
Lonicera symphoricarpos. Willd. sp. pl. 1. p. 989.
Icon. Schmidt arb. 115. Dill. elth. t. 278. f. 300.
 In sandy dry fields : Virginia and Carolina. ♀. July—Sept. *v. v.* Flowers small, red and yellow ; berries purple.
- racemosa.* 2. *S. racemo terminali, corolla intus barbata. Mich. fl. amer. 1. p. 107.*
 On mountains, near lake Mistassins. *Michaux.* On the banks of the Missouri. *M. Lewis.* ♀. Aug. *v. s. in Herb. Lewis.*

202. DIERVILLA. *Juss. gen. pl. 235.*

- lutea.* 1. *D. pedunculis axillaribus et terminalibus dichotomis trifloris, foliis ovatis serratis acuminatis.*
D. Tournetortii. Mich. fl. amer. 1. p. 107.
D. humilis. Pers. syn. 1. p. 214.
Lonicera Diervilla. Willd. sp. pl. 1. p. 989.
Icon. Schmidt arb. 116. Duham. arb. t. 87.
 On rocks and the highest mountains : Canada to Carolina. ♀. June, July. *v. v.* Flowers yellow ; fruit a brown dry capsule. There are a number of varieties, in respect to size, flowers and leaves.

203. TRIOSTEUM. *Gen. pl. 300.*

- perfoliatum.* 1. *T. foliis ovalibus acuminatis connatis, floribus sessilibus verticillatis.—Willd. sp. pl. 1. p. 990.*
Icon. Dill. elth. t. 293. f. 378.
 In rich rocky grounds, principally lime-stone soil : New England to Carolina ; rare. ♀. June—Aug. *v. v.* Flowers and berries dark purple.
- angustifolium.* 2. *T. foliis ovali-lanceolatis subconnatis, pedunculis oppositis unifloris, caule hispido —Willd. sp. pl. 1. p. 991.*
T. minus. Mich. fl. amer. 1. p. 107.
Icon. Pluk. alm. t. 104. f. 2.
 On the borders of woods, in sandy soil : Virginia and

Carolina. 2. June, July. v. v. Flowers and berries yellow.

204. RIBES. *Gen. pl.* 390.

1. R. inerme ; foliis abbreviatis acute lobatis glabriusculis : *albinervium.*
nervis albidis, racemis recurvatis, baccis glabris.—
Mich. fl. amer. 1. p. 110.
On lake Mistassins : Canada. *Michaux.* On the Catskill mountains : New York, &c. 2. April, May. v. v. Flowers small, greenish-yellow ; berries red.
2. R. inerme ; foliis modice lobatis supra glabris subtus *trifidum.*
pubescentibus, racemis laxis pubescentibus, floribus planiusculis, laciniis calycinis subtrifidis, petalis spatulatis obtusis, baccis hirsutis.—*Mich. fl. amer.* 1. p. 110.
In Canada. *Michaux.* On the Pennsylvania mountains, &c. 2. April, May. v. v. Flowers greenish-yellow ; petals purple ; berries red.
3. R. inerme ; ramis rectis, foliis acute lobatis dentatisque *rigens.*
reticulato-rugosis subtus pubescentibus, racemis laxis rigescenti-erectis, baccis hispidulis.—*Mich. fl. amer.* 1. p. 110.
On lake Mistassins : Canada. *Michaux.* In the Pennsylvania mountains, &c. 2. May, June. v. v. Berries red, erect as well as the flowers.
4. R. inerme ; ramis reclinato-prostratis, foliis lobatis glabriusculis : junioribus pubescentibus, racemis suberectis, calycibus planiusculis, petalis deltoideis, bracteis minutis, baccis hispidis.—*L'Herit. stirp.* 1. p. 3. *prostratum.*
R. glandulosum. *Ait. kew.* 1. p. 41.
Icon. *L'Herit. l. c. t.* 2. *Schmidt arb.* 95.
In rocky moist places : Newfoundland, Canada, Pennsylvania. 2. April, May. v. v. Flowers yellow tinged with red ; berries red.
5. R. inerme ; omnibus partibus pilis resinoso-glandulosis *resinosum.*
tectum ; foliis 3—5-lobatis subrotundis, racemis erectis, calycibus planiusculis, petalis obtuse-rhomboides, bracteis linearibus pedicello longioribus, baccis hirsutis.
On the mountains of North America. *Fraser.* 2. April, May. v. v. in *Hort.* Flowers green.
6. R. inerme ; omnibus partibus pilis viscidis tectum ; foliis *viscosissimum.*
cordatis obtuse-trilobis serratis, racemis erectis brevi-

bus, calycibus tubulatis, petalis oblongis, bracteis lineari-spathulatis pedicello duplo brevioribus, germinibus hirsutis.

On the Rocky-mountain in the interior of North America. *M. Lewis*. $\frac{1}{2}$. June. *v. s. in Herb. Lewis*. Flowers large, yellow; the whole plant covered with viscous hair. This species approaches near to *R. glandulosum*. *Fl. peruv* 3. p. 13. t. 233. f. b. It differs principally in the leaves being equally lobated, not having the middle lobe projecting; its long slender pedicels, and its petals.

sanguineum. 7. *R. inerme*; foliis cordatis trilobis serratis venoso-lineatis supra glabris, subtus tenui tomento albicantibus, racemis laxis pubescentibus foliis duplo longioribus, calycibus tubulatis, petalis oblongis longitudine calycis, bracteis obovato-spathulatis longitudine pedicellorum, germinibus hirsutis.

On the Columbia river. *M. Lewis*. $\frac{1}{2}$. March. *v. s. in Herb. Lewis*. Flowers beautiful, of a blood red or purple; branches purple. It approaches near to *R. albinervium*. *Fl. peruv* 3. p. 12. t. 232. f. b.

aureum. 8. *R. inerme*, glaberrimum; foliis trilobis: lobis divaricatis inciso-pauci-dentatis petiolo basi ciliato brevioribus, racemis laxis dense-multifloris, calycibus tubulatis pedicellis longioribus: tubo gracili: laciniis oblongis obtusis, petalis linearibus laciniis calycis duplo brevioribus, bracteis linearibus longitudine pedicellorum, baccis glabris.

On the banks of the rivers Missouri and Columbia. *M. Lewis*. $\frac{1}{2}$. April. *v. s. in Herb. Lewis*.; *v. v. in Hort*. Flowers in close racemes, beautiful golden-yellow; berries red or brown, of an exquisitely fine taste, and considerably larger size than any of the garden currants. The shrub before flowering has the appearance of a species of *Cratægus*.

recurvatum. 9. *R. inerme*; ramis recurvatis, foliis latiusculis acute-lobatis pubescentibus glanduloso-punctatis, racemis reflexis, calycibus tubulatis glabris.

Near Hudson's Bay, Canada. *Michaux*. $\frac{1}{2}$. +. Berries black.

floridum. 10. *R. inerme*; foliis utrinque punctatis, racemis pendulis, calycibus cylindraceis, bracteis pedicellis longioribus. *Willd. sp. pl.* 1. p. 1156.

R. pensylvanicum. *Lam. encycl.* 3. p. 47.

Icon. *Dill. elth. t. 244. f. 315. Schmielt arb. 92.*

In hedges and woods: Canada to Virginia. $\frac{1}{2}$. April, May. *v. v.* Flowers pale yellow; berries black.

11. *R. spina subaxillari*; foliis suborbiculatis subpubescentibus: lobis subrotundo-obtusis, pedunculis unifloris, limbo calycis tubuloso, baccis glabris. *Mich. fl. amer. 1. p. 110.* *rotundifolium.*

On the high mountains of Carolina. *Michaux. \frac{1}{2}. +.*

12. *R. spinula subaxillari*, ramis subhispidis foliis parvis semitritifidis: lobis subdentatis, pedunculis unifloris, baccis glabris.—*Mich. fl. amer. 1. p. 111.* *hirtellum.*

Among rocks, in the Allegany mountains: Canada to Virginia. $\frac{1}{2}$. May, June. *v. v.* Berries red.

13. *R. spinula subaxillari*, foliis petiolis gracilibus utrinque pubescentibus: lobis acutis dentato-incisis, pedunculis capillaribus subbifloris, calycibus tubulato-campanulatis, baccis glabris.—*Mich. fl. amer. 1. p. 111.* *gracile.*

On rocks and in mountain meadows: New York to Carolina. $\frac{1}{2}$. April—June. *v. v.* Berries purple or blue, of excellent taste.

14. *R. spina subaxillari*, foliis glabris 3—5-lobatis inciso-dentatis, pedunculis subtrifloris: pedicellis elongatis, bracteis brevissimis, petalis spatulatis undulatis, stylo hirsuto semibifido exerto, baccis glabris.—*Willd. hort 1. p. 61.* *triflorum.*

Icon. *Willd l. c. t. 61.*

On the Blue mountains: Pennsylvania to Virginia. $\frac{1}{2}$. May, June. *v. v.* Flowers yellowish-green; petals white; berries pale red, small.

15. *R. aculeis majoribus et subsolitariis ad gemmas, minoribus undique sparsis, foliis glabris: lobis dentatis, pedunculis brevibus subbifloris, baccis glabris.*—*Willd. sp. pl. 1. p. 1159.* *oxyacanthoides.*

Icon. *Dill. elth. t. 139. f. 166.*

On rocks: Canada, New York, &c. $\frac{1}{2}$. April, May. *v. v.*

16. *R. spina subaxillari multiplici*, caule undique hispido-aculeato, foliis ultra medium lobatis, petiolis villosis, baccis racemosis hispidis.—*Pers. syn. 1. p. 252.* *lacustris.*

R. oxyacanthoides. Mich. fl. amer. 1. p. 111.

In swamps, on the mountains: Canada to Virginia. $\frac{1}{2}$. April—June. *v. v.* Flowers small, greenish-yellow; berries amber-coloured or brown.

- Cynosbati.* 17. *R. passim subgeminis 2-aculeatum, foliis brevi-lobatis inciso-dentatis molliter pubescentibus, racemis nutanti-paucifloris, calycibus erecto-campanulatis, baccis aculeatis.*—*Mich. fl. amer.* 1. p. 111. *Willd. sp. pl.* 1. p. 1159.
 Icon. *Jacq. hort.* 2. t. 123. *Schmidt arb.* 98.
 On the sides of hills and rocks in the Allegany mountains, and in Canada. ½. April—June. *v. v.* Flowers green; berries dark brown and full of thorns.
205. RHAMNUS. *Gen. pl.* 358.
- franguloides.* 1. *R. inermis; foliis ovalibus acuminatis serrulatis subtus ad nervos pubescentibus, floribus dioicis, pedunculis unifloris aggregatis, calycibus acutis, fructibus turbatis.*—*Mich. fl. amer.* 1. p. 153.
R. alnifolius. *Willd. sp. pl.* 1. p. 1100.
 On dry hills, near rivers: Canada to Virginia. ½. June, July. *v. v.*; *v. s. in Herb. Lambert.* Flowers green; berries black; leaves small.
- alnifolius.* 2. *R. inermis; foliis ovalibus denticulatis brevi-acuminatis basi sinu parvo cordatis subtus ad nervos pubescentibus, pedunculis bis bifidis, baccis depresso-globosis.*
 On the banks of the river Kooskoosky. *M. Lewis.* ½. May. *v. s. in Herb. Lewis.* Berries purple, very highly esteemed by the Indians of that country.
- carolinianus.* 3. *R. inermis; foliis ovali-oblongis integriusculis glabris, umbellis pedunculatis, floribus hermaphroditis 4-andris 1-gynis, stigmate bilobo, fructibus globosis.*—*Mich. fl. amer.* 1. p. 153.
 In woods and swamps: Virginia and Carolina. ½. May—July. *v. v.* Berries black.
- lanceolatus.* 4. *R. inermis, arborescens; foliis lanceolatis serrulatis utrinque acutis subtus pubescentibus.*
 On the side of hills: Tennessee. *Lyon.* ½. *v. s. in Herb. Lyon.* Berries black.
- minutiflorus.* 5. *R. inermis; foliis suboppositis ovalibus serrulatis, floribus minutissimis dioicis spicatis in rachi alterne sessilibus, stylo 3-fido, bacca 3-sperma.* *Mich. fl. amer.* 1. p. 154.
 On the sea-coast of Carolina and Florida. *Michaux.* ½. +.

206. CEANOTHUS. *Gen. pl.* 361.

1. *C. foliis ovatis acuminatis serratis triplinerviis subtus americanus.*
 nervis venisque pubescentibus, paniculis axillaribus
 longe pedunculatis, pedicellis corymbosis. *Willd. sp.*
pl. 1. p. 1114.
Icon. Duham. arb. 51. *Schmidt arb.* 132.
 In dry woods ; common : Canada to Florida. $\frac{1}{2}$. May,
 June. *v. v.* Flowers small, white. It is commonly
 called *New Jersey-tea* or *Red-root* ; having been ac-
 tually used in the American war as a substitute for tea.
2. *C. foliis oblongo-ovalibus acutis mucronato-serrulatis intermedius.*
 triplinerviis subtus pubescentibus, paniculis axillari-
 bus longissime pedunculatis, pedicellis corymbosis
 laxis.
Icon. Pluk. alm. t. 28. *f.* 6.
 In the woods of Tennessee. *Lyon.* $\frac{1}{2}$. June, July. *v. v.*
 Leaves not one fourth the size of the foregoing species.
3. *C. foliis obovatis serratis subtus pubescentibus, paniculis sanguineus.*
 axillaribus thyrsoides brevissime pedunculatis, pedi-
 cellis aggregatis.
 Near the Rocky mountains on the banks of the Mis-
 souri. *M. Lewis.* $\frac{1}{2}$. May, June. *v. s. in Herb.*
Lewis. Branches blood-red or purple ; panicles not
 longer than the leaves.
4. *C. foliis ovalibus subserrulatis glabris, paniculis thyrsoides perennis.*
 terminalibus axillaribusque.
 On rocks near rivers : Virginia and Carolina. $\frac{1}{4}$. May.
v. v. Leaves the size of the first species, but smooth ;
 the stems scarcely ever remain over winter, but die
 down to the root.
5. *C. subdecumbens ; foliis minutis subfasciculatis oblongis microphyllus.*
 subintegerrimis glabriusculis, corymbulis terminalibus.
Mich. fl. amer. 1. p. 154.
 In sandy woods : Carolina to Florida. $\frac{1}{2}$. May, June.
v. v. A very delicate little shrub, the root of which,
 like all the foregoing species, is large and red, from
 which they derive the name of *Red-root*.

207. CELASTRUS. *Gen. pl.* 372.

1. *C. inermis, scandens ; foliis oblongis acuminatis serratis, scandens.*
 racemis terminalibus. *Willd. sp. pl.* 1. p. 1125.

Icon. *Duham. arb.* 95. *Schmidt arb.* 140.

In hedges and woods, among rocks : Canada to Virginia.

h. May, June. v. v. Flowers pale yellow ; berries orange-scarlet.

bullatus.

2. *C. inermis* ; foliis ovatis acutis integerrimis, panicula terminali. *Willd. sp. pl.* 1. p. 1123.

Icon. *Pluk. alm. t.* 28. f. 5.

In Virginia. h. +. Notwithstanding all my diligent researches at the place of its supposed nativity, as well as in the Herbariums of Plukenet and Banister, now at the British Museum, I have not been able to find any information respecting this species : consequently I strongly suspect its not being an American plant.

208. EVONYMUS. *Gen. pl.* 1. p. 373.

americanus.

1. *E. ramis* 4-angulatis, foliis subsessilibus elliptico-lanceolatis acutis serratis, pedunculis subtrifloris, floribus omnibus 5-fidis, fructibus verrucoso-muricatis.—*Willd. sp. pl.* 1. p. 1132.

Icon. *Pluk. alm. t.* 115. f. 5. *Schmidt arb.* 75.

In hedges and shady woods, among rocks, and on the edges of swamps : New England to Carolina. h. June, July. v. v. Flowers yellow, tinged with red ; fruit scarlet, resembling those of *Arbutus Unedo* at first sight. They are a great ornament to this almost evergreen shrub. The common name in America is *Burning-bush*.

angustifolius.

2. *E. ramis* 4-angulatis, foliis subsessilibus elongato-lineari-ellipticis subfalcatis subintegerrimis, pedunculis plerumque unifloris, floribus omnibus 5-fidis, fructibus verrucoso-muricatis.

In shady woods : Georgia. *Lyon*. h. June, July. v. v. Flowers and fruit the same as the first species. Though nearly related to it, it is propagated by seeds, and keeps its own distinction, according to information from Mr. Lyon.

atropurpureus.

3. *E. foliis* petiolatis oblongo-lanceolatis acuminatis serratis, pedunculis divaricatis multifloris, floribus 4-fidis, fructibus lævibus.—*Willd. sp. pl.* 1. p. 1132.

Icon. *Jacq. hort.* 2. t. 120. *Schmidt arb.* 73.

On the banks of rivulets : New York to Carolina. h. June, July, v. v. Flowers dark purple ; fruit red.

209. VITIS. *Gen. pl.* 396.

1. *V. foliis lato-cordatis sublobato-angulatis subtus incano-tomentosis, racemis fertilibus parvis, baccis majoribus.* *Mich. fl. amer.* 2. p. 230. *Willd. sp. pl.* 1. p. 1181.
V. taurina. *Walt. fl. car.* 242.
Icon. Jacq. schœnbr. 426.
 In shady woods: Canada to Florida. $\frac{1}{2}$. June, July. *v.v.* Berries black, large, of a disagreeable fox-smell, commonly called *Fox-grape*. There is a variety with white berries called *Bland's-grape*. *Lalrusca.*
2. *V. foliis lato-cordatis 3—5 lobis: junioribus subtus rufo-tomentosis, racemis fertilibus oblongis, baccis parvis.*—*Mich. fl. amer.* 2 p. 230.
V. vulpina. *Willd. sp. pl.* 1. p. 1181.
V. Labrusca. *Walt. fl. car.* 242.
Icon. Jacq. schœnbr. 425. *æstivalis.*
- β. *V. foliis sinuato-palmatis grosse dentatis: sinubus rhomboideis.* An species distincta? *sinuata.*
 In fields and woods: Virginia to Carolina. $\frac{1}{2}$. May, June. *v.v.* Berries dark blue, very agreeable to eat, and frequently converted into very good home-made wine. It is known by the name of *Summer-grape*.
3. *V. foliis cordatis acuminatis inciso-dentatis utrinque glabris, racemis laxe multifloris, baccis parvis.*—*Mich. fl. amer.* 2. p. 231. *cordifolia.*
V. incisa. *Jacq. schœnbr.* 427.
V. vulpina. *Walt. fl. car.* 243.
Icon. Jacq. l. c.
 On the edges of rivers and in woods: Canada to Florida. $\frac{1}{2}$. June, July. *v.v.* Berries green or amber-coloured, small, and ripen extremely late, of a very tart taste: commonly called *Winter-grape* or *Chicken-grape*.
4. *V. foliis inæqualiter inciso-dentatis breviuscule 3-fidis: petiolo nervis margineque pubescentibus.* *Mich. fl. amer.* 2. p. 231. *riparia.*
V. odoratissima. *Donn catal.* 66.
 On the gravelly shores and islands of the rivers: Pennsylvania to Carolina, $\frac{1}{2}$, May—July. *v.v.* Flowers of an exquisitely fine smell, somewhat resembling *Roseda odorata*. Female plants are very seldom found north of the Potowmac river, though the male extend very far beyond it.
5. *V. utrinque lucidis reniformi-cordatis subæqualiter den-* *rotundifolia.*

tatis, racemorum floribus pluries capitulatis, baccis magnis. *Mich. fl. amer.* 2. p. 231.

On river sides and islands: Virginia to Florida. η . June, July. *v. v.* Berries very large, dark blue, agreeable, commonly called *Bull-* or *Bullet-grapes*.

palmata.

6. *V. foliis cordatis palmatis glabris: laciniis lanceolatis incis, umbellis racemosis. Willd. sp. pl.* 1. p. 1180. In Virginia. *Vahl.* η . +.

210. CISSUS. *Gen. pl.* 655.

Ampelopsis.

1. *C. foliis truncato-cordatis acuminatis dentatis angulatisque: nervis subtus pubescentibus, racemis duplicato-bifidis.—Pers. syn.* 1. p. 142.

Ampelopsis cordata. Mich. fl. amer. 1. p. 159.

On river sides and among hedges, in the Allegany mountains: Pennsylvania to Carolina. η . June, July. *v. v.* Berries pale red.

hederacea.

2. *C. radicans, scandens; foliis quinato-digitatis utrinque glabris: foliolis petiolatis oblongis acuminatis mucronato-dentatis, pedunculis dichotomis: racemis corymbosis.—Pers. syn.* 1. p. 143.

Ampelopsis quinquefolia. Mich. fl. amer. 1. p. 160.

Vitis hederacea. Willd. sp. pl. 1. p. 1182.

Hedera quinquefolia. Linn. hort. cliff. 74.

Icon. *Corn. canad. t.* 100.

hirsuta.

- β . *C. foliis utrinque pubescentibus: foliolis ovatis acuminatis grosse-dentatis.*

Ampelopsis hirsuta. Donn catal. 166.

On the Allegany mountains: Pennsylvania to Virginia. η . *v. v.* The variety β . appears to be a distinct species; but, as I never have seen its flowers, a sufficient character is wanting.

stans.

3. *C. foliis bipinnatis: foliolis inciso-serratis, racemis pedunculatis duplicato-bifidis.—Pers. syn.* 1. p. 143.

Ampelopsis bipinnata. Mich. fl. amer. 1. p. 160.

Vitis arborea. Willd. sp. pl. 1. p. 1183.

Icon. *Pluk. mant. t.* 412. f. 2.

In shady woods, on river sides: Virginia and Carolina. η . June, July. *v. v.* Stem upright.

211. CYRILLA. *Linn. Mich. fl. amer.* 1. p. 157.

caroliniana.

1. *C. foliis cuneato-lanceolatis acutis membranaceis nervosis, spicis gracilibus, petalis pedicello longioribus. Mich. fl. amer.* 1. p. 158.

C. racemiflora. *Linn. mant.* 50.

Itea *Cyrilla*. *Willd. sp. pl.* 1. p. 1146.

Icon. *Jacq. ic.* 1. t. 47. *L'Herit. stirp.* 1. t. 66.

In sandy swamps of Carolina. $\frac{1}{2}$. June, July. *v. v.*

A very elegant shrub; flowers white.

212. *ITEA*. *Gen. pl.* 381. *Mich. gen. pl.* 1. p. 156.

1. *I. foliis oblongis serratis, spicis pubescentibus*.—*Willd.* *virginica*.
sp. pl. 1. p. 1146.

Icon. *Duham. arb.* 1. t. 126.

In swamps: Pensylvania to Carolina. $\frac{1}{2}$. June, July.

v. v. From four to six feet high: flowers white.

213. *IMPATIENS*. *Gen. pl.* 1365.

1. *I. pedunculis multifloris solitariis, foliis ovatis obtuse dentatis, geniculis caulinis tumentibus*.—*Willd. sp.* *Nolitangere*.
pl. 1. p. 1176.

Icon. *Fl. dan.* 588. *Engl. bot.* 937.

Near springs and rivulets, in shady places: New England to Carolina. ☉. June, July. *v. v.* Flowers plain yellow.

2. *I. pedunculis plerumque bifloris solitariis, foliis ovatis argute dentatis*.—*Willd. sp. pl.* 1. p. 1175. *Walt. fl.* *biflora*.
car. 219.

In wet shady places: Canada to Carolina. ☉. June, July. *v. v.* Flowers dark yellow, with red spots on the inside.

214. *VIOLA*. *Gen. pl.* 1364.

* *Acaules*.

1. *V. foliis subpedato-multipartitis: laciniis lineari-lanceolatis subintegris, calycis laciniis linearibus acutis*.—*Willd. sp. pl.* 1. p. 1160. *pedata*.

Icon. *Bot. mag.* 89. *Bot. rep.* 153.

On dry sandy hills and fields: New England to Carolina. $\frac{1}{4}$. May, June. *v. v.* Flowers large, beautiful blue. There is a very handsome variety with pale blue petals, ornamented with a dark purple velvet at the bottom, similar to *Viola tricolor*.

2. *V. foliis palmato-5—7-lobatis postice in petiolum attenuatis: lobis integris*. *digitata*.

In Virginia. *Leconte in litt.* $\frac{1}{4}$. May. *v. s.* Flowers pale blue.

- palmata*. 3. *V. pubescens*; foliis cordatis hastato-lobatis palmatisve; laciniis dentatis, calycis laciniis lanceolatis glabris, petalis 2. oppositis basi barbatis.—*Willd. sp. pl.* 1. p. 1159.
 Icon. *Bot. mag.* 535. *Pluk. alm. t.* 447. f. 1.
 On dry hills and pastures, generally in sandy soil. $\mathcal{U}$. April—June. *v. v.* Flowers blue; early in spring the leaves are generally kidney-shaped, and after the first flowers are gone they become palmated; sometimes it occurs with smooth leaves.
- sagittata*. 4. *V. pubescens*; foliis oblongis acutis cordato-sagittatis subserratis basi incis, pedunculis foliis longioribus, calycis laciniis linearibus glabris, petalis 3. inferioribus basi barbatis.—*Willd. sp. pl.* 1. p. 1160.
 On dry hills: New England to Virginia. $\mathcal{U}$. April—June. *v. v.* Flowers blue; lower petal white towards the bottom, with purple veins; the rest longer, narrower, and white towards the base.
- dentata*. 5. *V. glabra*; foliis oblongis acutis basi truncatis serratis inferne subhastato-grandi-dentatis, pedunculis foliis brevioribus, calycis laciniis linearibus, petalis 3. inferioribus basi barbatis.
 In wet meadows and woods: Pennsylvania. $\mathcal{U}$. May, June. *v. v.* Flowers of nearly the same colour and shape as the preceding species.
- lanceolata*. 6. *V. glabra*; foliis lanceolatis subserratis, pedunculis vix foliis longioribus, petalis imberbibus: 2. superioribus subrotundis.—*Willd. sp. pl.* 1. p. 1161.
 In overflowed meadows: Canada to Pennsylvania. $\mathcal{U}$. June, July. *v. v.* Flowers white; the upper petal painted with purple veins. There are several varieties of this species, some with ovate leaves attenuated in a petiole, some exceeding small, &c.
- blanda*. 7. *V. glabra*; foliis cordatis acutiusculis planiusculis remote serratis, pedunculis longitudine foliorum, petalis imberbibus: 2. lateralibus brevioribus, infimo reliquis longiore lanceolato — *Willd. hort. berol.* 1. t. 24.
 In wet places, bog-meadows: New York to Carolina. $\mathcal{U}$. April—June. *v. v.* Flowers yellowish white; lower petal marked with blue stripes and veins.
- obliqua*. 8. *V. glabra*; foliis cordatis acutis crenato-serratis planiusculis, floribus erectis, pedunculis longitudine foliorum, petalis oblique flexis: lateralibus angustioribus et lon-

gioribus infra medium barbatis.—*Willd. sp. pl.* 1. p. 1161.

In shady wet places : Pensylvania to Virginia. 2. April—June. v. v. Flowers white with purple and yellow veins.

9. *V. pubescens* ; foliis ovatis subcordatis crenatis : petiolis marginatis, calycibus ciliatis longis, petalis omnibus obovatis : 2. lateralibus barbatis.—*Willd. sp. pl.* 1. p. 1162. *primulifolia.*

On dry hills : Canada to Virginia. 2. April—June. v. v. Flowers blue.

10. *V. glabra* ; foliis cordatis glabris serratis basi cucullatis, pedunculis longitudine petiolorum, petalis oblique flexis : lateralibus barbatis.—*Willd. sp. pl.* 1. p. 1162. *cucullata.*

In grassy wet places : common. 2. May, June. v. v. Flowers blue, white at their base.

11. *V. foliis cordatis crenato-serratis obtusis subtus pubescentibus*, pedunculis foliis brevioribus, petalis oblongis : infimo basi barbato.—*Willd. hort. berol.* 1. t. 72. *sororia.*

In overflowed meadows : Pensylvania, &c. 2. April—June. v. v. Flowers blue, white at the bottom ; lower petal veined.

12. *V. foliis triangulari-cordatis acutis crenatis subcucullatis glabriusculis*, pedunculis longitudine foliorum, petalis obovatis : 3. inferioribus infra medium barbatis conniventibus, 2. superioribus reflexis. *papilionacea.*

Near Philadelphia, in wet places. 2. May, June. v. v. Flowers blue, elegantly striated and bearded with yellow down.

13. *V. glabriuscula* ; foliis suborbiculatis obtusiusculis sinu clauso cordatis crenato-serratis : serraturis glandulosis, stolonibus floriferis, petalis linearibus calyce vix longioribus. *clandestina.*

V. rotundifolia. Mich. fl. amer. 2. p. 150?

On the high mountains of Pensylvania, in shady beech-woods, among rotten wood and rich vegetable mould. 2. June—Sept. v. v. This singular species differs from all the rest, in producing its flowers as it were under ground, as they always are covered with rotten wood or leaves ; they are of a chocolate brown, very small ; the seed-vessel buries itself still deeper in the ground, and is large in proportion to the plant. The inhabitants know it by the name of *Heal-all*, being used by them in curing all kinds of wounds or sores.

** *Caulscentes*.

- canadensis*. 14. *V. glabriuscula*; foliis subcordatis acuminatis serratis, pedunculis longitudine foliorum, stipulis brevibus integris.—*Willd. sp. pl.* 1. p. 1166.
In shady woods, in rich moist situations: Canada to Carolina, on the mountains. $\mathcal{V}$. June—Aug. *v. v.* Flowers outside purplish-blue, inside white and elegantly veined, sweet scented.
- striata*. 15. *V. glabra*; foliis cordatis acuminatis serratis planiusculis, pedunculis longissimis, stipulis lanceolatis serrato-ciliatis.—*Willd. sp. pl.* 1. p. 1166.
In shady woods: Pennsylvania to Virginia. $\mathcal{V}$. May—July. *v. v.* Flowers white, with purple veins.
- debilis*. 16. *V. glabra*; foliis reniformi-cordatis brevissime acuminatis crenatis basi cucullatis, pedunculis foliis duplo longioribus, stipulis serrato-ciliatis.—*Mich. fl. amer.* 2. p. 150.
V. canina *Walt. fl. car.* 219.
In low grounds: Pennsylvania to Carolina. $\mathcal{V}$. May—July. *v. v.* Flowers not one half the size of the preceding species, pale blue.
- rostrata*. 17. *V. glabra*; foliis cordatis acutis serratis, pedunculis foliis duplo longioribus, stipulis lanceolatis serrato-ciliatis, nectariis rostratis corolla longioribus.
On shady rocks: near Eastown, Pennsylvania. $\mathcal{V}$. May, June. *v. v.* Flowers blue.
- pubescens*. 18. *V. villosa-pubescens*; caule erecto superne folioso, foliis lato-cordatis, stipulis oblongis apice serratis.—*Willd. sp. pl.* 1. p. 1166.
V. pennsylvanica. *Mich. fl. amer.* 2. p. 149.
In shady woods, among rocks, particularly limestone rocks: New York to Virginia. $\mathcal{V}$. May, June. *v. v.* Flowers yellow.
- hastata*. 19. *V. glabra*; caule simplici superne folioso, foliis hastatis brevissime petiolatis, stipulis minutis denticulatis. *Mich. fl. amer.* 2. p. 149.
On high mountains: Pennsylvania to Carolina. $\mathcal{V}$. May, June. *v. v.* Flowers yellow.
- Nuttallii*. 20. *V. pubescens*; caule simplici erecto, foliis ovato-oblongis acutis obsolete-dentatis nervosis, in petiolum longum attenuatis, stipulis lanceolatis integris, pedunculis longitudine foliorum.
On the banks of the Missouri. $\mathcal{V}$. June. *v. s. in Herb Nuttall*. Flowers yellow.

21. *V. stricte-erecta*: foliis lato-lanceolatis stipulisque lanceolato-linearibus integerrimis, pedunculis axillaribus geminis brevissimis.—*Forster in Linn. trans. Ö. p. 309. t. 28.*

concolor.

V. stricta. Mühlb. Mss.

On lime-stone rocks: Pennsylvania. $\mathcal{U}$. June, July. *v. v.*
About two feet high; flowers small, green.

22. *V. subpubescens*; caule angulato simplici, foliis inferioribus rotundato-spathulatis subdentatis, superioribus lanceolatis integris, stipulis pectinato-pinnatifidis, calycibus acutis corolla duplo brevioribus.

bicolor.

In fields of Pennsylvania and Virginia. $\odot$. May—July. *v. v.* Flowers small white, with a few purple veins. Nearly approaches to *V. tricolor*. Specimens in the collection of A. B. Lambert, Esq. from Pallas's Herbarium, are the same with this species.

215. CLAYTONIA. *Gen. pl. 402.*

1. *C. foliis lineari-lanceolatis, racemis solitariis, calycis foliolis acutiusculis, petalis obovatis retusis, radice tuberosa.*—*Willd. sp. pl. 1. p. 1185.*

virginica.

Icon. *Bot. mag.* 941.

In wet woods, round the stumps of rotten trees: New England to Carolina. $\mathcal{U}$. March—May. *v. v.* Flowers white, with red veins.

2. *C. foliis spathulatis, racemo solitario, calycis foliolis obtusis, petalis subrotundis retusis, radice tuberosa.*—*Parad. lond. 71.*

spathulæfolia.

C. caroliniana. Mich. fl. amer. 1. p. 160.

Icon. *Parad. lond. 71. Pluk. alm. t. 102. f. 3.*

On high mountains of Virginia and Carolina. $\mathcal{U}$. March, April. *v. v.* Flowers smaller than the first species, rose-coloured with purple veins.

3. *C. foliis lanceolatis: caulinis ovatis sessilibus, racemo solitario elongato, calycis foliolis brevibus obtusissimis, petalis cuneatis bifidis, radice tuberosa.*—*Pull. Mss.*

lanceolata.

On the Rocky-mountains. *M. Lewis. U. June. v. s. in Herb. Lewis.* Flowers white, nearly the size of the first species, without veins. In the collection of A. B. Lambert, Esq. I found a specimen collected by Pallas in the eastern parts of Siberia, perfectly agreeing with the present species.

4. *C. foliis radicalibus spathulato-ovatis, caulinis ovatis distinctis, racemis subgeminatis, floribus secundis, brac-*

alsinoides.

teis ovatis linearibusque, petalis emarginatis, radicibus fibrosis.—*Sims in bot. mag.*

C. sibirica. Hortul.

Icon. Bot. mag. 1309.

On the Columbia river. *M. Lewis.* ☉. May, June.
v. v. in Hortis. Flowers small, white.

perfoliata.

5. *C. foliis radicalibus spathulato-rhomboides: caulino suborbiculato perfoliato, racemis subsolitariis ebracteatis, petalis emarginatis, radicibus fibrosis.*—*Down catal* 50. *Willd. sp. pl.* 1. p. 1186.

C. cubensis. Humb. & Bonpl. equinoct. t. 26. *Annales du mus. d'hist. nat.* 7. p. 82. t. 6.

Icon. Bot. mag. 1336.

On the Rocky-mountains. *M. Lewis.* ☉. April, May.
v. v. in Hort. Flowers smaller than any of the foregoing species, white.

216. GLAUX. *Gen. pl.* 408.

maritima.

1. *Glaux. Willd. sp. pl.* 1. p. 1216.

Icon. Fl. dan. 548.

In overflowed marshes, near the sea: Canada. ♀. July.
v. v. Leaves oblong, smooth. Flowers axillary, sessile, flesh-coloured.

217. ANYCHIA. *Mich. fl. amer.* 1. p. 112.

dichotoma.

1. *A. caule patulo dichotomo ramosissimo, foliis lanceolatis glabris erectis, stipulis floralibus calyce glabro subæqualibus.* *Mich. fl. amer.* 1. p. 113.

Queria canadensis. Willd. sp. pl. 1. p. 494.

Icon. Ort. dec. t. 15. f. 2.

On dry limestone hills: New York to Kentucky. ♀. June—Aug. *v. v.* Flowers exceeding small; very variable in the number of filaments, generally from two to five.

herniarioides.

2. *A. humifusa, conferta, undique pubescens; foliis oblongo-ovalibus ciliatis mucronatis, laciniis subulatis: acumine setaceo patuloque.* *Mich. fl. amer.* 1. p. 113.

On the dry sands of North Carolina. *Michaux.* ♀. +.

argyrocoma.

3. *A. cæspitosa, procumbens; caulibus pubescentibus, foliis linearibus acutissimis subpilosis, capitulis fasciculato-terminalibus argenteis, calycis pilosi apicibus barbatis et longe acuminatis.* *Mich. fl. amer.* 1. p. 113.

On rocks in Upper Carolina and Virginia. ♀. June, July. *v. v.*

218. THESIIUM. *Gen. pl.* 410.

1. *T. erectum* : foliis ovali-lanceolatis, fasciculis florum corymboso-terminalibus.—*Willd. sp. pl.* 1. p. 1214.
T. corymbulosum. Mich. fl. amer. 1. p. 112.
Icon. Pluk. mant. t. 342. *f.* 1.
 On dry hills and fields : New York to Carolina. ♀.
 June, July. *v. v.* Flowers white. *umbellatum.*

219. NYSSA. *Gen. pl.* 1599.

1. *N. foliis oblongis integerrimis utrinque acutis, petiolo, costa media margineque villosis, pedunculis femineis subtrifloris, nucibus brevi-obovatis obtuse striatis.*—*Willd. sp. pl.* 4. p. 258.
N. multiflora. Walt. fl. car. 253.
N. montana. Hortul.
Icon. Mich. arb. 21. *Wangh amer. t.* 16. *f.* 39.
 In all the woods from New England to Carolina. ♀.
 May. *v. v.* Flowers small, greenish ; berries black, the size of a pea. This tree is known by the name of *Sour-gum. villosa.*
2. *N. foliis ovato-oblongis integerrimis utrinque acutis glabris, pedunculis femineis bifloris, drupis brevi-obovatis : nuce obtuse-striata.*—*Willd. sp. pl.* 4. p. 1113.
N. aquatica. Sp. pl. 1511.
N. integrifolia. Ait. kew. 3. p. 446.
Icon. Mich. arb. 22. *Catesb. car.* 1. *t.* 41.
 In deep swamps : Virginia and Carolina. ♀. April, May. *v. v.* Berries the size of the preceding species, blueish-black. *biflora.*
3. *N. foliis brevissime petiolatis oblongis sub-integerrimis basi cuneatis subtus candicantibus, pedunculis femineis unifloris, drupis oblongis.*—*Willd. sp. pl.* 4. p. 1113.
N. capitata. Walt. fl. car. 253.
Icon. Mich. arb. 20.
 On the banks of rivers : Carolina, principally on the river Ogechee. ♀. May, June. *v. v.* Fruit large, orange-coloured, full of an acid similar to a lime, from which it is known by the name *Ogechee-lime. candicans.*
4. *N. foliis longe petiolatis oblongis acuminatis remote serratis subtus tomentosis, pedunculis femineis unifloris, drupis oblongis.*—*Willd. sp. pl.* 4. p. 1113. *tomentosa.*

N. grandidentata. *Mich. arb. t.* 19.

On the banks of the river St. Mary, and in Florida.
h. May. *v. s.* Fruit the size of the preceding, dark blue.

- denticulata.* 5. *N. foliis longe petiolatis oblongis acuminatis remote serratis undique glabris. pedunculis femineis unifloris, drupis oblongis.* *Willd. sp. pl.* 4. *p.* 1114.
N. uniflora. *Walt. fl. car.* 253.
N. angulisans. *Mich. fl. amer.* 2. *p.* 259.
Icon. Wagh amer. t. 27. *f.* 57. *Catesb. car.* 1. *t.* 60.
 In swamps: Virginia and Carolina. *h.* *v. v. s. fl.*

220. HAMILTONIA. *Willd. sp. pl.* 4. *p.* 1114.

Pyrularia. *Mich. fl. amer.* 2. *p.* 231.

- oleifera.* 1. *Hamiltonia.* *Willd. l. c.*
Pyrularia pubera. *Mich. l. c.*
 In shady woods, in the mountains of Pennsylvania, Virginia near the Sweet springs, and in Carolina. *h.* May, June. *v. v.* A shrub from four to six feet high, very pubescent; leaves oblong, entire, acuminate; flowers small, greenish-yellow, in terminal racemes; fruit known in the country by the name of *Oil-nut*.

II. DIGYNIA.

221. ECHITES. *Gen. pl.* 421.

- difformis.* 1. *E. volubilis*; *foliis ovali-lanceolatis acuminatis basi acutis: infimis linearibus, floribus fasciculato-corymbosis.*
—Walt. fl. car. 98.
E. puberula. *Mich. fl. amer.* 1. *p.* 120.
 In woods of Lower Virginia and Carolina. *h.* July. *v. v.* Flowers small, dirty yellow; seed pods very slender and long.

222. GONOLOBIMUM. *Mich. fl. amer.* 1. *p.* 119.

- macrophyllum.* 1. *G. sarmentis petiolisque hirsutis, foliis amplis abrupte acuminatis puberulis, corollæ laciniis ovali-lanceolatis, folliculis costato-angulosis.*—*Mich. fl. amer.* 1. *p.* 119.

Vincetoxicum gonocarpus. *Walt. fl. car.* 104.

In shady woods of Carolina and Virginia. ½. June.
v. v. Flowers dark purple or dirty yellow.

2. *G. sarmentis petiolisque hirsutissimis, foliis sensim acuminatis utrinque pubescentibus, corollæ laciniis oblongo-ovalibus obtusis, folliculis oblongis muricatis.*—*Mich. fl. amer.* 1. p. 119.

hirsutum.

Vincetoxicum acanthocarpus. *Walt. fl. car.* 104.

In hedges, near rivulets : Pensylvania to Carolina. ¼. June, July. v. v. Flowers dark purple.

3. *G. sarmentis glabriusculis, foliis subconoideo-cordatis sensim acutis nervis subtus puberulis, floribus glabris, corollæ laciniis ovali-oblongis obtusiusculis, folliculis lævibus.* *Mich. fl. amer.* 1. p. 119.

læve.

Cynanchum carolinense. *Jac. ic.* 2. t. 342 ?

In hedges on the banks of the Mississippi. ¼. June.
v. v. s. fr. Flowers dark purple.

Cynanchum obliquum. *Jacq. ic.* 2. t. 241. probably is another species of this genus. I have seen the plant in flower, but without fruit, in a cultivated state, but never observed it growing spontaneously ; consequently I shall omit it, as a doubtful North American plant.

223. APOCYNUM. *Gen. pl.* 426.

1. *A. caule rectiusculo patente, foliis ovatis utrinque glabris, cymis lateralibus et terminalibus glabris, corollis limbo patentibus.*—*Willd. sp. pl.* 1. p. 1259.

Icon. Dod. mem. t. 50.

In fields and along the edges of woods : Canada to Carolina. ¼. July. v. v. Flowers pale red with darker stripes.

2. *A. caule rectiusculo, foliis oblongo-ovalibus subtus candicante-pubescentibus, paniculis pubescentibus, corollis limbo erectis.*—*Willd. sp. pl.* 1. p. 1259.

Icon. Pluk. alm. t. 13. f. 1.

In sandy fields and woods ; common. ¼. June, July.
v. v. Flowers yellowish-green, small. The plant is generally called *Indian Hemp*.

3. *A. caule erectiusculo, foliis oblongis cordatis glabris, cymis folio brevioribus.* *Willd. sp. pl.* 1. p. 1260.

hypericifolium.

A. sibiricum. *Jacq. hort.* 3. t. 66.

On the gravelly shores of rivers : New York to Virginia ; scarce. ¼. July, Aug. v. v. Flowers very

small; plant lower than the preceding species, and very smooth.

224. ASCLEPIAS. *Gen. pl.* 429.

* *Foliis oppositis.*

syriaca.

1. *A. caulibus simplicissimis, foliis lanceolato-oblongis sensim acutis subtus tomentosis, umbellis subnutantibus tomentosis.*—*Willd. sp. pl.* 1. p. 1265.

In fields and on the banks of rivers, very common: New England to Virginia. $\mathcal{U}$. July, Aug. *v. v.* From three to five feet high; flowers in large close clusters, pale purple, sweet-scented. The nectaries act as fly-traps.

phytolaccoides.

2. *A. caule erecto simplici, foliis lato-ovato-oblongis acutis glabris subtus pallidioribus, umbellis compositis lateralibus solitariis longe pedunculatis nutantibus.*—*Gron. virg.* 38.

On the mountains of Virginia and Carolina. $\mathcal{U}$. July, Aug. *v. v.* Stem about three feet or more high, spotted with purple; leaves large, middle rib purple; flowers sweet-scented; petals reflexed, very dark purple. This plant was introduced into England in 1812, by Mr. Lyon, under the above name.

debilis.

3. *A. glabriuscula; caule debili erecto simplici, foliis petiolatis ovali-lanceolatis utrinque acutis membranaceis, umbellis terminalibus laxifloris, pedicellis capillaribus.*—*Mich. fl. amer.* 1. p. 116.

In shady rocky situations, near rivulets: New York to Carolina; rare. $\mathcal{U}$. July, Aug. *v. v.* Flowers white; leaves large. The fibres of the stem produce a kind of flax, as all the rest of this genus do, but far superior, being of a beautiful silky gloss and extreme strength.

parviflora.

4. *A. foliis lanceolatis acuminatis glabris oppositis basi attenuatis, umbellis lateralibus solitariis, caule suffruticoso erecto.* *Willd. sp. pl.* 1. p. 1267.

A. perennis. Walt. fl. car. 107.

In sandy fields: Carolina and Florida. $\mathcal{U}$. July, Aug. *v. v.* Flowers small, white.

nivea.

5. *A. foliis ovato-lanceolatis glabriusculis, umbellis erectis lateralibus solitariis, caule simplici.* *Willd. sp. pl.* 1. p. 1266.

Icon. *Dill. elth. t.* 29. *f.* 32. *Bot. mag.* 1187.

On the banks of rivers in sandy or gravelly soil: Virginia to Carolina. $\mathcal{U}$. July, Aug. *v. v.* Flowers white.

6. *A. caule erecto superne ramoso tomentoso, foliis lanceolatis utrinque subtomentoso-lanuginosis, umbellis pluribus origine geminis, corniculis appendicum exertis.* *incarnata.*
Mich. fl. amer. 1. *p.* 115. *Willd. sp. pl.* 1. *p.* 1267.

Icon. *Jacq. hort. t.* 107.

- β . *Willd. l. c.* *pulchra.*

In swamps and on river banks; common. $\mathcal{U}$. June—Aug. *v. v.* Flowers red. The variety β . is more hairy, in every other respect no ways different; sometimes the leaves are quite smooth, and only pubescent on the upper part of the stem.

7. *A. caule simplici bifariam puberulo, foliis subsessilibus oblongo-ovalibus subtus pubescentibus, umbellis terminalibus nectariisque erectis, appendicibus exertis.* *amaena.*
Willd. sp. pl. 1. *p.* 1265.

Icon. *Dill. elth. t.* 27. *f.* 30.

In wet meadows, on the edges of woods and ditches: New England to Virginia. $\mathcal{U}$. July, Aug. *v. v.* Flowers beautiful purple.

8. *A. caule simplici, foliis ovatis subtus villosis, umbellis erectis, nectariis resupinatis.* *purpurascens*
Willd. sp. pl. 1. *p.* 1265.

Icon. *Dill. elth. t.* 28. *f.* 31.

In shady swamps: Virginia and Carolina. $\mathcal{U}$. July, Aug. *v. v.* Flowers purple.

9. *A. caule simplici erecto hirsuto, foliis lanceolato-oblongis obtusiusculis subsessilibus utrinque tomentoso-hirsutis, umbellis lateralibus solitariis subsessilibus nutantibus subgloboso-densifloris, appendicibus nullis.* *viridiflora.*

In dry fields: Pennsylvania to Virginia. $\mathcal{U}$. June, July. *v. v.* Flowers green.

10. *A. caule simplici erecto, foliis ovatis petiolatis rugosis nudis, umbellis subsessilibus pedicellis tomentosis.* *variegata.*
Willd. sp. pl. 1. *p.* 1265. *Walt. fl. car.* 104.

A. hybrida. Mich. fl. amer. 1. *p.* 115.

Icon. *Pluk. alm. t.* 77. *f.* 1. *Bot. mag.* 1182.

On dry sunny hills, on the borders of woods: New York to Carolina. $\mathcal{U}$. July, Aug. *v. v.* A very handsome species; flowers in dense umbels; petals and nectaries white; fructification red.

- obtusifolia*. 11. *A. foliis amplexicaulibus oblongis rotundato-obtusis undatis, umbella terminali longius pedunculata multiflora glabra, corniculis exertis.* *Mich. fl. amer.* 1. p. 115.
A. purpurascens. *Walt. fl. car.* 105.
 In sandy fields: New Jersey to Carolina. 24. June—Aug. *v. v.* Flowers large, purple.
- amplexicaulis*. 12. *A. tota glauca; caulibus decumbentibus simplicibus, foliis cordatis amplexicaulibus venosis, corniculis delitescens compresso-ligulatis.* *Mich. fl. amer.* 1. p. 115.
A. humistrata. *Walt. fl. car.* 105.
 In barren sandy fields: Carolina and Georgia. 24. June, July. *v. v.* Leaves red-veined, thick; flowers handsome, red.
- acuminata*. 13. *A. caule erecto glabro simplici, foliis ovatis subcordatis acuminatis brevi-petiolatis, superioribus sessilibus; umbellis lateralibus solitariis erectis.*
A. cordata. *Walt. fl. car.* 105.
 In deep cedar-swamps, and on the banks of rivers: New Jersey. 24. July. *v. v.* Flowers red and white; stem about two feet high; roots very large, resembling those of *A. tuberosa*.
- laurifolia*. 14. *A. caule erecto glabro, foliis subsessilibus ovali-lanceolatis sensim angustatis acutissimis glabris: supra ad oras asperiusculis.*—*Mich. fl. amer.* 1. p. 117.
 On the river Althamaha, Georgia. *Michaux.* 24. July. *v. s.* Flowers purple.
- paupercula*. 15. *A. caule erectiusculo glabro oligophyllo, sursum nudo, foliis linearibus longissimis glabriusculis, umbellis terminalibus paucifloris.*—*Mich. fl. amer.* 1. p. 118.
A. lanceolata. *Walt. fl. car.* 105.
 In sandy wet meadows: Virginia and Lower Carolina. 24. June, July. *v. v.* Flowers red, with yellow appendices.
- pedicellata*. 16. *A. caule simplici erecto piloso, foliis elliptico-linearibus pubescentibus supra punctato-asperis, umbella lateralis solitaria pauciflora, petalis erectis calyce multoties longioribus, nectariis lunulatis patentibus corniculis nullis.*—*Walt. fl. car.* 106.
 On dry sandy fields of South Carolina. *Walter.* Near Fort Barrington. *Lyon.* 24. June. *v. s. in Herb. Lyon. nec non Walter.* The whole plant not above

three inches high ; flowers large in proportion, greenish yellow ; fructification on a pedicel.

17. *A. caulibus erectis, foliis petiolatis oblongis obtusis lævibus, umbellis paucis terminalibus, petalis erectis calyce multo longioribus, nectariis integris patulis brevibus.*—*Walt. fl. car.* 107.

viridis.

South Carolina. *Walter. M. v. s. in Herb. Lyon.* Flowers large ; petals green ; nectaries purple ; fructification white. This and the preceding species deviate from the general character of *Asclepias*, and probably constitute a distinct genus ; but having had no opportunity to examine the living plant, I refer them to this genus until another opportunity may be had to investigate them.

18. *A. caulibus erectis simplicibus glabris, foliis ovatis acuminatis petiolatis : in medio cauli majoribus quaternis, umbellis duabus terminalibus laxifloris, pedicellis filiformibus.*—*Jacq. obs.* 2. t. 23.

quadrifolia.

On lime-stone rocks : New York to Virginia. *M.* May—July. *v. v.* From nine inches to a foot high ; flowers small, sweet-scented ; petals white ; nectaries rose-coloured.

**** *Foliis sparsis.***

19. *A. caule erecto simplicissimo lineatim puberulo, foliis angustissime linearibus strictis glabris plerumque verticillatis, corniculis exertis.* *Mich. fl. amer.* 1. p. 116. *Willd. sp. pl.* 1. p. 1272.

verticillata.

Icon. *Pluk. mant.* t. 336. f. 4.

On dry hills and fields : New Jersey to Carolina. *M.* June, July. *v. v.* Petals yellowish-green ; nectaries white.

20. *A. caule decumbente foliisque sparsis prælongo-linearibus puberulis, appendicibus corollæ corpusculo genitalifero brevioribus et corniculo vacuis.* *Mich. fl. amer.* 1. p. 116.

longifolia.

A. incarnata. Walt. fl. car. 106.

A. floridana. Lam. encycl. 1. p. 284.

In shady wet woods : Carolina and Georgia. *M.* July, Aug. *v. s.* Flowers pale purple ; fructification yellow.

21. *A. caule erectiusculo summitate divaricato-ramoso hirsutissimo, foliis sparsis oblongo-lanceolatis hirsutis,*

tuberosa.

umbellis subcorymboso-terminalibus.—*Willd. sp. pl.* 1. p. 1273.

Icon. *Dill. elth. t.* 30. f. 34.

decumbens. β . *A.* caule decumbente, foliis sublinearibus hirsutissimis umbellis lateralibus. *Willd. sp. pl.* 1. p. 1268.

In stony or sandy fields and woods; common. β . In barren fields of Carolina. $\mathcal{U}$. June, July. *v. v.* Flowers very showy; petals and nectaries bright orange; fructification yellow.

224. *b.* CEROPEGIA. *Gen. pl.* 431.

palustris.

1. *C.* foliis linearibus integerrimis, floribus umbellatis, pedunculis longitudine foliorum, calycis laciniis linearibus.

In salt marshes, winding round *Scirpi* and *Junci*: Carolina. *Lyon. \mathcal{U}. v. s. in Herb. Lyon. nec non Walter.* The whole habit of the plant is that of *C. tenuiflora*. *Willd. sp. pl.* 1. p. 1276. the flowers only considerably smaller.

225. AMSONIA. *Walt. fl. car.* 98.

tatifolia.

1. *A.* caule glabriusculo, foliis ovali-lanceolatis superioribus promissa acuminatis subtus ad nervos pubescentibus.—*Mich. fl. amer.* 1. p. 121.

Tabernæmontana *Amsonia*. *Willd. sp. pl.* 1. p. 1246.

Icon. *Pluk. phyt. t.* 115. f. 3.

In shady wet woods: Carolina. $\mathcal{U}$. May. *v. v.* Flowers in compound corymbose racemes, blue.

salicifolia.

2. *A.* caule lævigato, foliis lineari-lanceolatis utrinque acutis glaberrimis.

In Carolina and Georgia. *Lyon. \mathcal{U}. May. v. v.* Flowers the same as the first species, more abundant.

angustifolia.

3. *A.* caule pubescente, foliis angusto-linearibus crebris erectis pubescentibus. *Mich. fl. amer.* 1. p. 121.

Amsonia ciliata. *Walt. fl. car.* 98.

In sandy barrens of Carolina and Georgia. $\mathcal{U}$. May, June. *v. s. in Herb. Walter. &c.* Flowers of the same disposition and colour as both the foregoing species.

226. GELSEMINUM. *Juss. gen. pl.* p. 168.

nitidum.

1. *G.* scandens, glaberrimum; foliis lanceolatis, fasciculis axillaribus paucifloris. *Mich. fl. amer.* 1. p. 120.

Bignonia sempervirens. Willd. *sp. pl.* 3. p. 291.

Anonymos sempervirens. Walt. *fl. car.* 98.

Icon. *Catesb. car.* 1. t. 53. *Pluk. alm. t.* 112. f. 5.

On the sea-coast near rivers: Virginia to Florida. L.

June, July. v. v. Flowers large, deep yellow, fragrant; known by the name *Carolina Jessamine*.

227. GENTIANA. Gen. pl. 450.

1. *G. caule tereti, ramis elongatis unifloris, foliis lanceolatis acutis, corollis 4-fidis, laciniis obovatis incisciliatis, plicis interioribus simplicibus.*—Willd. *sp. pl.* 1. p. 1352. *crinita.*

G. fimbriata. Bot. rep. 509.

In dry pastures and woods: New York to Carolina.

♂. Aug. Sept. v. v. Flowers a beautiful sky-blue, elegantly fringed on their edges.

2. *G. caule tereti, foliis lineari-lanceolatis obtusiusculis, floribus terminalibus fasciculatis, lateralibus solitariis pedunculatis, corollis 5-fidis campanulatis; laciniis rotundatis, plicis interioribus acute-unidentatis.*—Willd. *sp. pl.* 1. p. 1336. *Pneumonanthe.*

Icon. *Fl. dan.* 269. Bot. mag. 1101.

On high mountains, near the borders of lakes and rivulets: Canada to Pennsylvania. ♀. Aug. Sept. v. v. Flowers large, dark-blue.

3. *G. caule tereti glabro, foliis oblongo-lanceolatis trinerviis, floribus sessilibus fasciculatis terminalibus axillaribusque, corollis 5-fidis campanulatis ventricosis; laciniis obtusis, plicis interioribus laciniis dentatis.*—Willd. *sp. pl.* 1. p. 1338. *Saponaria.*

G. fimbriata. Vahl 3. p. 47.

G. Catesbæi. Walt. *fl. car.* 109.

Icon. *Catesb. car.* 1. t. 70. Bot. mag. 1039. Bot. rep. 418.

In low meadows and woods: Canada to Carolina. ♀. Aug. Sept. v. v. Flowers very crowded, fine blue.

4. *G. caule subangulato scabriusculo, foliis ovato-lanceolatis asperiusculis, floribus sessilibus fasciculatis terminalibus, corollis 5-fidis campanulatis ventricosis; laciniis acutis, plicis interioribus simplicibus acutis.*—Willd. *sp. pl.* 1. p. 1338. *ochroleuca.*

G. Saponaria. Walt. *fl. car.* 109. Mich. *fl. amer.* 1. p. 176.

G. villosa. Willd. *sp. pl.* 1. p. 1338.

Icon. *Pluk. alm t.* 186. *f.* 1.

In dry sandy fields and on gravelly hills: Pennsylvania to Florida; more scarce. *℥.* Aug. Sept. *v. v.* Not so tall as the preceding species; flowers outside of a yellowish-green, inside, blue and striped with purple. That the present plant is the same with *G. villosa*, there remains no doubt, having seen the Gronovian specimen in the Banksian Herbarium, which is the same with *G. Saponaria* of Walter, and *G. ochroleuca* of Frœlich.

linearis.

5. *G. caule asperiusculo, foliis lineari-lanceolatis undulosis uti calyces ciliolatis, floribus 5-fidis campanulatis terminalibus sessilibus congestis, laciniis brevibus obtusis, plicis interioribus laciniis denticulatis.*—*Willd. sp. pl.* 1. *p.* 1339.

G. puberula. Mich. fl. amer. 1. *p.* 176.

In valleys, on the mountains of Pennsylvania and Virginia. *℥.* Aug. *v. v.* Flowers large, blue.

amarelloides.

6. *G. caule quadrangulo ramoso, foliis semiamplexicaulibus ovalibus acutis trinervibus, floribus 5-fidis tubuloso-campanulatis fauce glabris terminalibus et lateralibus ternis quinisque subpedicellatis, laciniis lanceolatis acuminatis, plicis simplicibus, calycibus brevissimis angustis.*—*Mich. fl. amer.* 1. *p.* 175.

G. quinqueflora. Willd. sp. pl. 1. *p.* 1339.

On hills, in shady dry places: New York to Kentucky. ♂. July, Aug. *v. v.* Flowers small, pale blue, not yellow as they are represented by Michaux.

acuta.

7. *G. caule 4-gono, foliis sessilibus subamplexicaulibus erectis oblongo-ovatis acutissimis, floribus fasciculatis terminalibus et lateralibus, corollis 5-fidis, laciniis lineari-lanceolatis, plicis ciliatis.* *Mich. fl. amer.* 1. *p.* 177.

On the high mountains of Carolina and in Canada. *Michaux. +.* Flowers very small, greenish-yellow.

angustifolia.

8. *G. caule tereti simplici unifloro, foliis angusto-linearibus patulis, corollis 5-fidis, laciniis ovalibus, plicis interioribus laciniis laceris.*—*Mich. fl. amer.* 1. *p.* 177.

G. purpurea. Walt. fl. car. 109.

In meadows and near rivers, in sandy soil: New Jersey to Carolina. *℥.* Aug. Sept. *v. v.* Flowers large, a beautiful azure blue.

228. HYDROLEA. *Gen. pl.* 445.

1. *H. spinosa*, pilosa; foliis longo-lanceolatis, pedunculis *quadrivalvis*. axillaribus brevissimis 1—5-floris, capsulis glabris.—
Walt. fl. car. 110.
H. caroliniana. *Mich. fl. amer.* 1. p. 177.
In stagnant waters of Lower Carolina. $\mathcal{A}$. July. *v. s.*
Flowers blue.

229. DICHONDRA. *Gen. pl.* 451. *Mich. fl. amer.* 1. p. 135.

1. *D. pubescens*; foliis absque emarginatura reniformibus *carolinensis*. concoloribus, calycibus villosociliatis.—*Mich. fl. amer.* 1. p. 136.
Anonymos repens. *Walt. fl. car.* 110.
Demidofia repens. *Gmel syst. nat.* 458.
In sandy fields, on road sides, about Charlestown, South Carolina. $\mathcal{A}$. June—Sept. *v. v.* A small creeping plant, with small herbaceous coloured flowers.

230. EVOLVULUS. *Gen. pl.* 524.

1. *E. erectus*; foliis oblongis utrinque sericeo-tomentosis, *argenteus*. pedunculis unifloribus brevibus.
On the banks of the Missouri. *Nuttall. v. s.* Flowers yellow.

231. HEUCHERA. *Gen. pl.* 447.

1. *H. viscido-pubescens*; scapo foliisque asperiusculis, foliis modice rotundato-lobatis dentatis: dentibus dilatatis obtusis mucronatis, pedunculis paniculæ tres dichotomis divaricatis, calycibus brevibus obtusis, petalis lanceolatis longitudine calycis, staminibus longe exsertis. *viscida*.
H. americana. *Willd. sp. pl.* 1. p. 1328.
H. Cortusa. *Mich. fl. amer.* 1. p. 171.
Icon. Pluk. alm. t. 58. *f.* 3.
In shady rocky situations: New England to Carolina; frequent. $\mathcal{A}$. May—July. *v. v.* Flowers in a long simple panicle, small; petals red. It varies sometimes with nearly smooth leaves.
2. *H. pulverulento-pubescens*; scapo inferne foliisque sub- *pubescens*. tus glabris, foliis subacuto-lobatis dentatis: dentibus rotundatis mucronatis, pedunculis paniculæ brevibus confertifloris, calycibus campanulatis majoribus, pe-

talibus spathulatis calyce longioribus, staminibus vix exertis.

On the Blue mountains of Pennsylvania and Virginia. $\mathcal{U}$. May, June. *v. v.* Flowers larger than the rest of the genus; petals pale red with yellow.

hispida.

3. *H. hispida*, scabra; scapo petiolis foliisque subtus glabris, foliis acute lobatis, supra hispidopilosis dentatis: dentibus brevissimis subretusis mucronatis, pedunculis paniculae paucifloris, calycibus mediocribus subacutis, petalis spathulatis longitudine calycis, staminibus exertis.

On high mountains of Virginia and Carolina. $\mathcal{U}$. May, June. *v. v.* Petals purple?

villosa.

4. *H. villosissima*; foliis acute lobatis dentatis: dentibus acutis mucronatis, fasciculis paniculae capillaribus laxifloris, calycibus parvis, staminibus exertis.—*Mich. fl. amer.* 1. p. 172.

On high mountains of North Carolina and Virginia; collected on the Peaks of Otter. $\mathcal{U}$. June. *v. v.* Flowers small; petals white.

caulescens.

5. *H. basi suffruticosa*; scapo basi petiolisque pilosis, foliis supra glabris subtus ad nervos pilosis acute-lobatis ciliatis dentatis; dentibus acutis mucronatis, calycibus brevibus villosis, petalis linearibus calyce duplo longioribus, staminibus exertis.

On high mountains of Carolina. *Lyon*. $\mathcal{U}$. May, June. *v. v.* Petals white. In the Herbarium of A. B. Lambert, Esq. are specimens of a *Heuchera*, collected by Pallas in Kamtschatka, which appear to be the same with the present species.

232. ZIZYPHUS. *Lam. encycl.* 3. p. 303.

volubilis.

1. *Z. inermis*; foliis ovatis costato-venosis integerrimis subundulatis, umbellis pedunculatis axillaribus, caule volubili. *Willd. sp. pl.* 1. p. 1102.

Rhamnus volubilis. *Linn. suppl.* 152. *Walt. fl. car.* 101. *Icon Jacq. ic.* 2. t. 336. *Schmidt arb.* 153.

In deep swamps, near the sea-coast: Virginia to Carolina. $\mathcal{U}$. June. *v. v.* Flowers small, greenish-yellow; berries oblong, violet-coloured. It ascends the highest trees of *Cupressus disticha*, in the Dismal swamp, near Suffolk in Virginia, and is known there by the name of *Supple-Jack*.

233. ERYNGIUM. *Gen. pl.* 456. *Delaroche monog. eryng.*

1. *E. præaltum* ; foliis longissime lanceolato-linearibus serratis : rameis lineari-multipartitis, involucris foliolis capitulo ovoideo longioribus paleisque 3—5-fidis, capitulis paniculatis.—*Lam. encycl.* 4. p. 759. *Delaroche eryng.* p. 48. *virginianum.*

E. aquaticum β . *Willd. sp. pl.* 1. p. 1357. *Mich. fl. amer.* 1. p. 163.

Icon. *Delaroche eryng.* t. 19. *Pluk. alm.* t. 396 f. 3.

On the banks of rivers, in overflowed tide-meadows : Pennsylvania to Virginia. $\mathcal{U}$. July, Aug. *v. v.* Stem hollow ; flower-heads green or pale blue. I once found a beautiful proliferous variety with pale purple flowers, one on the top of the others.

2. *E. simplex* ; foliis ovato-cordatis brevissime petiolatis, capitulis omnibus pedunculatis, involucris foliolis paleisque 3-fidis, caule virgato superne tantum ramoso. *virgatum.*
—*Lam. encycl.* 4. p. 757. *Delaroche eryng.* p. 49.

E. ovalifolium. *Mich. fl. amer.* 1. p. 163.

E. integrifolium. *Walt. fl. car.* 112.

Icon. *Delaroche eryng.* t. 20.

In wet meadows and woods : Carolina and Georgia. $\mathcal{U}$. July. *v. v.* About a foot high ; flower-heads small, round, amethystine-blue.

3. *E. pumilum*, graveolens ; foliis serrato-spinosis : radicalibus lanceolatis, floralibus palmatis, capitulis cylindricis subsessilibus, paleis longissimis lineari-lanceolatis.—*Willd. sp. pl.* 1. p. 1356. *foetidum.*

Icon. *Brown. jam.* 1. t. 156. f. 3. 4.

In dry fields : Georgia to Florida. $\mathcal{U}$. July, Aug. *v. v.* Flowers in small heads, herbaceous. Very much esteemed among the natives as a medicine.

4. *E. elatum* ; foliis late-linearibus remote ciliato-spinosis, floralibus lanceolatis dentatis, foliolis involucris capitulo globoso brevioribus paleisque integris, caule subdichotomo.—*Willd. sp. pl.* 1. p. 1357. *aquaticum.*

Icon. *Jacq. ic.* 2. t. 347. *Pluk. alm.* t. 396. f. 3.

In swamps : Virginia to Carolina. $\mathcal{U}$. Aug. *v. v.* Sometimes more than six feet high ; leaves very long ; flower-heads pale green.

234. HYDROCOTYLE. *Gen. pl.* 457.

- americana.* 1. *H. glabra, tuberosa*; foliis subpeltato-orbiculatis duplicato-crenatis, glomerulis paucifloris sessilibus.—*Willd. sp. pl.* 1. p. 1361.
- flexicaulis.* α. *H. caulibus firmioribus brevioribusque quasi angulatis flexuosis.* *Mich. fl. amer.* 1. p. 162.
- gracilis.* β. *H. gracilior, filiformis, non flexuosa*; foliis minoribus. *Mich. l. c.*
In bogs and sphagnum swamps: α. Canada to Virginia. β. In the mountains of Carolina, Virginia, and in Canada. ♀. June—Aug. v. v. Flowers exceeding small, and of a greenish colour, as is the case with all the following species.
- vulgaris.* 2. *H. foliis orbiculatis peltatis leviter crenatis, scapo interrupto-spicato paucifloro.*—*Willd. sp. pl.* 1. p. 1360.
Icon. Fl. dan. 90. *Engl. bot.* 751.
In swamps and overflowed places: Canada to Georgia. ♀. May—July. v. v.
- umbellata.* 3. *H. foliis peltatis crenatis basi emarginatis, umbellis pedunculatis multifloris, floribus pedicellatis.* *Willd. sp. pl.* 1. p. 1361.
In wet fields and mossy swamps: Virginia and Carolina. ♀. May—July. v. v.
- repanda.* 4. *H. foliis rotundato-cordatis subangulato-repandis, petioli nervisque pilosis, capitulo pedunculato trifloro villosulo.* *Pers. syn.* 1. p. 302.
H. ficaroides. *Mich. fl. amer.* 1. p. 161.
H. reniformis et cordata. *Walt. fl. car.* 113.
On overflowed banks of rivers in Lower Carolina and Georgia. ♀. June, July. v. v. Seeds larger than the preceding species.
- lineata.* 5. *H. minuta, glaberrima*; foliis crassiusculis lineari-cuneatis transversim lineatis, umbella pedunculata.—*Mich. fl. amer.* 1. p. 161.
In overflowed places of Lower Carolina. ♀. April, May. +.
- composita.* 6. *H. radice globoso-bulbosa, caule simplici diphylo bifido, folio laterali 3-partito, partitionibus subpinnatis, pinnulis divis: terminali sub-biternato, umbellis terminalibus 3—5-floris.*
Sison bulbosum. *Mich. fl. amer.* 1. p. 169.
On rocks, in wet shady places, near Knoxville, Kentucky. *Michaux.* ♀. March, April. v. s. in *Herb.*

Enslen. As far as I have been able to learn from a dried specimen, there remains no doubt that this plant belongs to this genus rather than any other I know. The flowers have white petals and dark purple anthers.

235. PANAX. *Gen. pl.* 1604.

1. *P. radice fusiformi, foliis ternis quinatis, foliolis ovali-quinquefoliibus acuminatis petiolatis serratis.*—*Willd. sp. pl.* 4. *um.* p. 1124.

Icon. *Catesb. car.* 3. t. 16. *Trew ehret. t.* 6. f. 1. *Bot. mag.* 1333.

In the mountains from Canada to Tennessee, in rich shady woods. 24. May. *v. v.* This plant produces the famous root called *Ginseng*, so much esteemed by the Chinese : it formerly was an article of exportation in America, but at present there is little demand for it.

2. *P. radice subrotundo-bulbosa ; foliis ternis ternatis quinatisve, foliolis oblongo-lanceolatis subsessilibus serratis.*—*Willd. sp. pl.* 4. p. 1124. *trifolium.*

Icon. *Bot. mag.* 1334.

In low shady woods, near rivulets : New York and Pennsylvania. 24. May. *v. v.* A small delicate plant, easily overlooked even when in search of it.

236. SANICULA. *Gen. pl.* 458.

1. *S. foliis digitatis, foliolis oblongis incisis, floribus fertilibus sessilibus subternis, sterilibus pedicellatis numerosis.*—*Willd. sp. pl.* 1. p. 1367. *marylandica.*

Icon. *Jacq. ic.* 2. p. 348.

In dry woods, frequent : Canada to Carolina. 24. June, July. *v. v.* Flowers greenish-white ; fruit a little bur.

2. *S. foliis radicalibus compositis, foliolis ovatis.* *Willd. sp. pl.* 1. p. 1366. *canadensis.*

In Virginia. +. A doubtful species.

237. DAUCUS. *Gen. pl.* 466.

1. *D. seminibus hispidis, petiolis subtus nervosis.* *Willd. sp. pl.* 1. p. 1389. *Carota.*

The *Wild Carrot* is one of the most common weeds in dry fields.

pusillus.

2. *D. retrorsum-hispidus* ; foliolis laciniis minimis sublan-
ceolatis, umbellis parvis, umbellulis paucifloris, semi-
nibus 8-fariam cristato-muricatis.—*Mich. fl. amer.* 1.
p. 164.

In dry fields of Carolina. *Michaux.* +.

238. AMMI. *Gen. pl.* 467.*capillaceum*.

1. *A. caule ramoso*, foliis omnibus composite capillaceo-
multipartitis, involucris umbella brevioribus multipar-
titis, seminibus glabratiss.

A. majus. Walt. fl. car. 113.

In sandy fields of Carolina and Georgia. ☉. June, July.

v. s. The plant small, with very finely divided leaves.

239. SELINUM. *Gen. pl.* 470.*canadense*.

1. *S. glaberrimum*, lucidum ; foliis bipinnatis, foliolis mul-
tipartitis, laciniis lanceolatis, fructibus ovalibus. *Mich.*
fl. amer. 1. p. 163.

Apium bipinnatum. Walt. fl. car. 115.

On the mouths of large rivers from Canada to Carolina.

♂. July. *v. v.* Flowers white.

240. FERULA. *Gen. pl.* 475.*villosa*.

1. *F. foliis supradecomposito-ternatis*, foliolis ovatis serratis
rigidis venosis, caule pedunculis umbellisque villosis.
Walt. fl. car. 115.

Cicuta venenata. Philad. philos. trans.

On dry hills : New York to Carolina. ♂. July, Aug.
v. v. Flowers white. In the Philosophical Transac-
tions of Philadelphia, a description of this plant has
been given, and a full account of its poisonous qua-
lities.

241. HERACLEUM. *Gen. pl.* 477.*lanatum*.

1. *H. foliorum petiolo nervisque subtus lanato-villosissimis*,
foliis trifoliatis, foliolis omnibus petiolatis amplis sub-
rotundo-cordatis subpalmato-lobatis, seminibus orbi-
culatis. *Mich. fl. amer.* 1. p. 166.

In shady woods, on rich moist soil : Canada to Pennsyl-
vania ; rare. ♂. June, July. *v. v.* Flowers white.

242. LIGUSTICUM. *Gen. pl.* 478.

1. *L. foliis caulinis biternatis, summis trifoliatis, foliis lateralibus trapeziformibus, terminali rhombeo, umbellis strictis, involucro involucellisque linearibus polyphyllis.*
Mich. fl. amer. 1. p. 166.

On the river St. Laurence. *Michaux.* 4. +. July.

scoticum.

2. *L. foliis petiolo duplicato-tripartito, partitionibus secundariis 2-3 foliolatis, foliolis ovalibus æqualiter dentatis, involucellis setaceis, fructibus oblongo-ovalibus subulato-10-costatis.* *Mich. fl. amer.* 1. p. 166.

On the river St. Laurence. *Michaux.* In Virginia near Staunton, &c. 4. July. v. v. More than three feet high.

actæifolium.

3. *L. ? caule lævi glabroque, nodis confertim barbulatis, foliis plerisque biternatis margine nervisque puberulis, fructibus ovalibus utrinque margine subdipteris.* *Mich. fl. amer.* 1. p. 167.

In Upper Carolina. *Michaux.* 4. v. s. in *Herb. Lyon.*
 I suspect this species to belong to another genus, probably *Sium*.

barbinode.

243. ANGELICA. *Gen. pl.* 479.

1. *A. petiolo tripartito, partitionibus pinnato-5-foliolatis, foliolis inciso-dentatis: terminalium impari rhombeo sessili, lateralibus decursivis.* *Mich. fl. amer.* 1. p. 167.

In Canada and on the mountains of Virginia. 4. June, July. v. v. Smooth.

triquinata.

2. *A. foliis compositis, foliolis oblongis sublobatis serratis subsessilibus: extimo pari coadunato: terminali petiolato.*—*Willd. sp. pl.* 1. p. 1430.

In Canada and on the mountains of Virginia. 4. July, Aug. v. v. From three to six feet high; root very fragrant; petals purple.

atropurpurea.

3. *A. foliolis æqualibus ovatis inciso-serratis.* *Willd. sp. pl.* 1. p. 1430.

In shady woods; Canada to Pennsylvania. 4. June, July. v. v. Flowers white.

lucida.

244. SIUM. *Gen. pl.* 480.

- rigidius.* 1. *S. foliis pinnatis, foliolis lanceolatis integerrimis vel superne dentatis.* *Willd. sp. pl.* 1. p. 1433.
In wet meadows: Pennsylvania to Virginia. ♀. July, Aug. *v. v.* Flowers small. This and the following are considered very poisonous plants, especially in respect to horned cattle; and every farmer who knows their bad qualities is busily employed to destroy them.
- lineare.* 2. *S. foliis pinnatis, foliolis longis sublinearibus remotiuscule serratis, involucri oligophyllo, involucri linearibus polyphyllis, umbella breviter radiata.* *Mich. fl. amer.* 1. p. 167.
S. suave. *Walt. fl. car.* 115.
In wet meadows and along ditches: Canada to Pennsylvania. ♀. July. *v. v.*
- longifolium.* 3. *S. foliis pinnatis, foliolis inferioribus longissimis falcato-linearibus rariter dentatis, caule oligophyllo superne nudo, umbellis subgeminis nudiusculis.*
In ditches and bogs: New Jersey. ♀. Aug. *v. v.* Very slender.

244. b. SISON. *Gen. pl.* 481.

- pusillum.* 1. *S. foliis biternatim multipartitis, umbellulis 3—5-floris, seminibus scaberulis.* *Mich. fl. amer.* 1. p. 168.
Daucus divaricatus. *Walt. fl. car.* 114.
In dry sandy fields: Carolina. ☉. April, May. *v. s.*
- trifoliatum.* 2. *S. foliis omnibus trifoliatis, foliolis dentatis, inferioribus ovalibus 2—3-lobis, superioribus ovali-lanceolatis, umbella terminali solitaria pedunculata, seminibus subrotundis.* *Mich. fl. amer.* 1. p. 168.
In Upper Carolina. *Michaux.* +.
- marginatum.* 3. *S. foliis pinnatis, superioribus quinatis, foliolis omnibus sessilibus lanceolatis integerrimis albido-marginatis, involucri involucellisque nullis.* *Mich. fl. amer.* 1. p. 168.
In wet meadows: Virginia to Carolina. ♀. July, Aug. *v. v.*

245. CENANTHE. *Gen. pl.* 484.

- carolinensis.* 1. *O. foliis omnibus simplicibus filiformibus.* *Walt. fl. car.* 113.
South Carolina. *Walter.* +.

246. PHELLANDRIUM. *Gen. pl.* 485.

1. *P. foliorum ramificationibus divaricatis. Willd. sp. pl.* 1. *aquaticum.*
p. 1444.

On the waters of the Rocky-mountain. *M. Lewis.* ♀.
July. *v. s. in Herb. Lewis.* The Indians of that
country use it as a medicine in the diseases of horses.

247. CICUTA. *Gen. pl.* 486.

1. *C. foliorum serraturis mucronatis, petiolis membranaceis maculata,*
apice bilobis. Willd. sp. pl. 1. *p.* 1446.

Icon. *Pluk. alm. t.* 76. *f.* 1.

In wet meadows and ditches : New England to Carolina.
♀. July, Aug. *v. v.*

2. *C. foliis fœniculaceis : ramis verticillatim bulbiferis.— bulbifera,*
Willd. sp. pl. 1. *p.* 1445. *exclus. syn. Gronov.*

In overflowed meadows and pastures : Canada to New
Jersey. ♀. July. *v. v.* A very singular small plant.

248. CONIUM. *Gen. pl.* 469.

1. *C. seminibus striatis. Willd. sp. pl.* 1. *p.* 1395. *maculatum,*
Icon. *Jacq. austr.* 156.

In cultivated grounds and near habitations ; probably in-
troduced : New York and Virginia. ♂. June—Aug.
v. v. Very poisonous.

249. CHÆROPHYLLUM. *Gen. pl.* 490.

1. *C. seminibus nitidis lævibus, foliis decompositis, caule procumbens,*
procumbente, umbellis paucifloris. Pers. syn. 1. *p.* 320.
Scandix procumbens. Willd. sp. pl. 1. *p.* 1452.

On shady wet hills, on the foot of mountains : Virginia.
☉. May. *v. v.* A small and scarce plant ; I ob-
served it near Hager's Town, Maryland.

2. *C. foliis ternatis, foliolis ovatis acutis subincisis, pedun- canadense,*
culis geminis, fructibus oblongis.— Pers. syn. 1. *p.* 320.
Sison canadense. Willd. sp. pl. 1. *p.* 1436.

Common in the woods : Canada to Virginia. ♀. July.
v. v.

3. *C. petiolo tripartito, partialibus 3—5-foliolatis, foliolis Claytoni.*
oblongo-ovalibus subpinnatifido-lobatis, umbella pau-
ci-radiata divaricata, fructibus elongatis teretibus læ-
vigatis.— Pers. syn. 1. *p.* 320.

Scandix dulcis. *Muhl. Mss.*

Myrrhis Claytoni. *Mich. fl. amer.* 1. p. 170.

In the Allegany and other mountains ; New England to Carolina. 2. June, July. v. v. The root has a very agreeable scent and sweet taste.

250. PASTINACA. *Gen. pl.* 494.

sativa.

1. *P. foliis simpliciter pinnatis.* *Willd. sp. pl.* 1. p. 1466.
Common Parsnep is found frequently in a wild state apparently as a native, but certainly originated from European seeds.

251. SMYRNIUM. *Gen. pl.* 495.

cordatum.

1. *S. foliis radicalibus suborbiculato-cordatis crenatis, caulinis petiolatis trifoliatis, supremis 3-partitis, umbella radiis brevibus.*—*Walt. fl. car.* 114.
Thapsia trifoliata. *Willd. sp. pl.* 1. p. 1465.
In woods, frequently on the mountains : New England to Carolina. 2. June, July. v. v. Flowers yellow, as are all the following.

aureum.

2. *S. foliis biternatis, partialium intermedio sæpe subquinato, foliolis ovali-lanceolatis serrulatis, umbella brevior radiata.*—*Willd. sp. pl.* 1. p. 1468.
On the mountains and hills, near banks of rivers : Pennsylvania to Carolina. 2. June, July. v. v.

atropurpureum.

3. *S. foliis omnibus ternatis, foliolis ovatis acutis serratis.* *Lam. encycl.* 3. p. 667.
S. barbinode. *Muhl. mss.*
On dry slate hills : Virginia and Carolina. 2. May—July. v. v. Flowers dark purple.

integerrium.

4. *S. glaberrimum ; foliis glaucis, inferioribus 3-ternatis, superioribus 2-ternatis, foliolis ovalibus integris, umbella radiis paucis setaceo-elongatis.*—*Willd. sp. pl.* 1. p. 1468.
On dry hills : New England to Carolina ; scarce. 2. June. v. v.

nudicaule.

5. *S. foliis radicalibus 3-ternatis, foliolis inæqualiter paucidentatis, scapo radicali, umbella radiis elongatis, involucri involucrellisque subnullis.*
On the Columbia river. *M. Lewis.* 2. April, May. v. s. in *Herb. Lewis.* The natives eat the tops of this plant and boil it in their sôups, the same as we use celery.

252. SESELI. *Gen. pl.* 492.

1. *S. foliis 3-ternatis, foliolis longo-linearibus, umbellis hemisphæricis, involucellis polyphyllis: foliolis linearibus longitudine umbellularum.* *triternatum.*
 On the waters of Columbia river. *M. Lewis.* 24. April, May. *v. s. in Herb. Lewis.* Flowers deep yellow. The fusiform root of this species is one of the grateful vegetables of the Indians: they use it baked or roasted.

253. SALSOLA. *Gen. pl.* 437.

1. *S. herbacea diffusa: foliis triquetro-subulatis mucronatis lineatis, calycibus marginatis axillaribus.*—*Willd. sp. pl.* 1. p. 1310. *Rali.*
Icon. Pall. illustr. t. 28 & 29.
 Near the sea-coast, in gravelly dry soil: frequent; plentifully in the city of New York. ☉. July. *v. v.* Flowers very small; seeds in a membranaceous calyx.
2. *S. herbacea, decumbens, glabra; foliis dilatato-subulatis spinescentibus, gemmis fructificantibus valde turgidis, calycibus fructiferis explanato-alatis.* *Mich. fl. amer.* 1. p. 174. *Walt. fl. car.* 111. *caroliniana.*
 In Carolina. *Michaux.* +. Probably only a variety of the preceding species.
3. *S. herbacea, erectiuscula, ramosissima; foliis linearibus muticis carnosis, glomerulis confertis subspicatis, calycibus fructiferis depresso-subrotundis.*—*Willd. sp. pl.* 1. p. 1312. *Mich. fl. amer.* 1. p. 174. *salsa.*
Icon. Jacq. hort. 3. t. 83.
 On the mouth of the river St. Laurence. *Michaux.* ☉. *v. s.*
4. *S. herbacea, humifusa, ramosissima; ramulis distichis, foliis succulentis linearibus acutis glabris, floribus axillaribus sessilibus, staminibus exertis.* *depressa.*
Sueda prostrata. Pall. illustr. 55. t. 47.
 On the volcanic plains of the Missouri. *Nuttall.* ☉. June. +.

254. CHENOPODIUM. *Gen. pl.* 435.

1. *C. foliis triangulari-sagittatis integerrimis, spicis compositis aphyllis axillaribus.* *Willd. sp. pl.* 1. p. 1299. *Bonus Henicus.*
Icon. Engl. bot. 717.
 In Virginia. *Gronov.* 24. June—Aug. *v. v.* I never

observed this species myself in America, but it is very probable it may be found there, as Gronovius asserts.

- murale*. 2. *C. foliis ovatis inæqualiter dentatis acutis nitidis, racemis ramosis cymosis aphyllis.*—*Willd. sp. pl.* 1. p. 1301.
Frequent on road sides, among rubbish and in gardens.
☉. July—Sept. *v. v.*
- album*. 3. *C. foliis rhomboideo-ovatis erosis postice integris: superioribus oblongis integerrimis, seminibus lævibus.*
Smith fl. brit. 1. p. 273. *Willd. sp. pl.* 1. p. 1302.
Icon. *Engl. bot.* 722.
- viride*. β. *Willd. sp. pl.* 1. p. 1303.
In cultivated grounds, near roads and fences: common.
☉. July, Aug. *v. v.*
- hybridum*. 4. *C. foliis cordatis angulato-dentatis acuminatis, racemis ramosissimis subcymosis divaricatis aphyllis.* *Smith fl. brit.* 1. p. 275. *Willd. sp. pl.* 1. p. 1303.
Icon. *Curt. lond.* 4. t. 23.
In wet rocky situations: on the North river near Catskill, New York. ☉. July, Aug. *v. v.*
- Botrys*. 5. *C. foliis oblongis sinuatis, racemis nudis multifidis.*
Willd. sp. pl. 1. p. 1304.
On the banks of the Susquehanna, Pennsylvania, and about Onondago, New York. ☉. July, Aug. *v. v.*
Smell strong, but not disagreeable.
- ambrosioides*. 6. *C. foliis lanceolatis dentatis, racemis foliatis simplicibus.*
Willd. sp. pl. 1. p. 1304.
Icon. *Moris. hist.* 2. s. 5. t. 35. f. 8.
In sandy fields: Georgia. ☉. July. *v. v.* Very sweet scented.
- anthelminticum*. 7. *C. foliis ovato-oblongis dentatis, spicis longis interruptis aphyllis.*—*Willd. sp. pl.* 1. p. 1304.
Icon. *Dill. elth.* t. 66. f. 76.
On road sides: Pennsylvania and Virginia; plentifully in the streets of Philadelphia. 4. June—Aug. *v. v.*
Smells very strong, but not disagreeable to some persons.
- maritimum*. 8. *C. foliis subulatis carnosis semiteretibus, floribus glomeratis axillaribus.* *Willd. sp. pl.* 1. p. 1307.
Icon. *Moris. hist.* 2. s. 5. t. 33. f. 3.
On the sea-coast of Pennsylvania and Virginia. ☉. July, Aug. *v. v.*

255. ATRIPLEX. *Gen. pl.* 1577.

1. A. caule fruticoso, foliis alternis oppositisve oblongo-sub-rhombeis integerrimis. *Willd. sp. pl.* 4. p. 957. *Halimus.*
On the sea-coast of Virginia. *Gronovius. h. v. v. in Hortis.* I take this species up only on the authority of Gronovius, having never seen it myself as a native of America.
2. A. caule erecto herbaceo, foliis triangularibus dentatis concoloribus, calycibus fructus ovatis reticulatis integerrimis. *Willd. sp. pl.* 4. p. 961. *hortensis.*
Frequent in fields and about gardens. ☉. July. *v. v.*
3. A. caule erecto herbaceo, foliis triangularibus profunde dentatis subtus albidis, calycibus fructus rhombeis trinerviis denticulatis. *Willd. sp. pl.* 4. p. 963. *laciniata.*
Icon. *Moris. hist.* 2. s. 5. t. 32. f. 17.
Near the sea-coast, on banks of rivers: New York to Virginia. ☉. June—Aug. *v. v.* Leaves gray.
4. A. caule herbaceo erecto, foliis triangulari-hastatis profunde dentatis concoloribus, calycibus fructus sinuato-dentatis, dente intermedio elongato. *Willd. sp. pl.* 1. p. 963. *hastata.*
Frequent about gardens and in fields. ☉. July. *v. v.*

256. CANNABIS. *Gen. pl.* 1522.

1. C. foliis digitatis. *Willd. sp. pl.* 4. p. 768. *sativa.*
Common hemp is frequently found in fields, apparently indigenous, though it is one of those plants introduced from Europe. ☉.

257. HUMULUS. *Gen. pl.* 1523.

1. Humulus. *Willd. sp. pl.* 4. p. 769. *Lupulus.*
In deep shady valleys on the mountains and on river sides in the lower countries, frequent. It is really indigenous. ♀.

258. ULMUS. *Gen. pl.* 443.

1. U. ramis lævibus basi inæqualibus: serraturis uncinato-acuminatis, floribus pedicellatis, fructibus villo densissimo fimbriatis.—*Willd. sp. pl.* 1. p. 1325. *americana.*
Icon. *Mich. arb. t. . . .*

- pendula*. β. *U. foliis oblongis glabriusculis, ramis pendulis.* *Ait. kew.* 1. *p.* 319.
Common in all low lands and woods : New England to Carolina. ½. April. *v. v.* Known by the name of *White Elm*.
- nemoralis*. 2. *U. foliis oblongis glabriusculis æqualiter serratis basi sub-æqualibus, floribus sessilibus.* *Ait. kew.* 1. *p.* 319.
U. campestris. *Walt. fl. car.* 111 ?
On the banks of rivers : New England to Virginia ; scarce. ½. April, May. *v. v.* *River Elm*.
- fulva*. 3. *U. ramis scabris albidis, foliis ovato-oblongis acuminatis basi subæqualibus, inæqualiter serratis utrinque pubescentibus scaberrimis, gemmis laevi densa fulva tomentosis, floribus sessilibus.*—*Mich. fl. amer.* 1. *p.* 172.
Icon. *Mich. arb. t.* . . .
On mountains from Canada to Pennsylvania. ½. May. *v. v.* *Red Elm. Slippery Elm.* The viscous inside bark is used by the natives as a healing salve.
- alata*. 4. *U. ramis utrinque alato-suberosis, foliis oblongo-ovalibus sensim acutis basi subæqualibus, fructu pubescente ciliato.*—*Mich. fl. amer.* 1. *p.* 173.
U. pumila. *Walt. fl. car.* 111.
Icon. *Mich. arb. t.* . . .
In sandy low woods : Virginia and Carolina. ½. April. *v. v.* *Whahoo*.

259. *CELTIS.* *Gen. pl.* 1591.

- occidentalis*. 1. *C. foliis ovatis acuminatis æqualiter serratis basi inæqualibus supra scabris, subtus hirtis, fructu solitario.*—*Willd. sp. pl.* 4. *p.* 994.
Icon. *Duham. arb.* 1. *t.* 53. *Mich. arb. t.* . . .
In woods and near rivers : Canada to Carolina. ½. May. *v. v.* *Nettle-tree.* Berries dark purple.
- crassifolia*. 2. *C. foliis ovatis acuminatis inæqualiter serratis basi inæqualiter cordatis subcoriaceis utrinque scabris, pedunculis subbifloris.*—*Willd. sp. pl.* 4. *p.* 995.
C. cordifolia. *Duham.* 2. *t.* 9.
In woods and near rivers : Virginia, Kentucky, and Tennessee. ½. May. *v. v.* Known by the name of *Hagberry* or *Hoop-ash*.
- pumila*. 3. *C. foliis ovatis acuminatis æqualiter serratis basi inæqua-*

libus utrinque glabriusculis : junioribus tantum pubescentibus, pedunculis subtrifloris, fructu solitario.
On the banks of rivers : Maryland and Virginia. $\frac{1}{2}$.
May. *v. v.* A small straggling bush ; berries ovate, black.

III. TRIGYNIA.

260. VIBURNUM. *Gen. pl.* 503.

1. *V. glabrum* ; ramis patentissimis, foliis subrotundis crenato-serratis, petiolis lævibus, cymis sessilibus, fructibus rotundatis.—*Willd. sp. pl.* 1. p. 1847.
Icon. Pluk. alm. t. 46. *f.* 2. *Duham. 2. t.* 38.
Common in hedges and fields : New England to Carolina. $\frac{1}{2}$. May, June. *v. v.* Berries dark blue ; flowers, as all the following species, white. *prunifolium.*
2. *V. glabrum* ; foliis ovatis subacutis subserratis, petiolis lævibus, fructibus ovato-oblongis cymis subpedunculatis.—*Lam. encycl.* 8. p. 653.
On the banks of rivers : Pennsylvania, New Jersey, &c. $\frac{1}{2}$. May, June. *v. v.* Resembles the former, but is not so straggling in its growth ; berries black. *pyrifolium.*
3. *V. glabrum* ; foliis lato-ovatis acuminatis uncinato-serratis, petiolis marginatis undulatis, cymis sessilibus.—*Willd. sp. pl.* 1. p. 1491.
Frequent among hedges and on borders of woods : New England to Carolina. $\frac{1}{2}$. July. *v. v.* Is more inclined to grow to a tree than any of the rest ; berries black. *Lentago.*
4. *V. glaberrimum* ; foliis ovalibus margine revolutis subintegerrimis, petiolis lævibus, cymis ebracteatis pedunculatis.—*Willd. sp. pl.* 1. p. 1487.
Icon. Mill. ic. 274.
In swamps, particularly on sandy soil : Canada to Georgia. $\frac{1}{2}$. May, June. *v. v.* Berries black ; in the Southern States it becomes an evergreen ; the young branches are ferruginous and sometimes the leaves on their under surface. *nudum.*
5. *V. glabrum* ; foliis obovatis crenato-dentatis seu integerrimis obtusis, umbellis sessilibus, fructibus ovato-subrotundis.—*Lam. encycl.* 8. p. 658. *Walt. fl. car.* 116. *obovatum.*

- V. cassinoides*. *Mich. fl. amer.* 1. p. 179.
- punicifolium*. β . *V. foliis obovatis integris seu apice laxè crenatis obtusis. Hort. par.* 115.
In shady woods : Carolina and Georgia. $\frac{1}{2}$. May, June.
v. s.
- cassinoides*. 6. *V. glabrum ; foliis ovato-lanceolatis utrinque acutis crenatis margine subrevolutis, petiolis carinatis eglandulatis.—Willd. sp. pl.* 1. p. 1491.
In swamps : New York to Carolina. $\frac{1}{2}$. June, July.
v. v. Berries blueish-black.
- lævigatum*. 7. *V. foliis lanceolatis lævibus remote-serratis basi integerrimis, ramulis ancipitibus.—Willd. sp. pl.* 1. p. 1492.
Icon. Mill. ic. t. 83. *f.* 1.
Near the sea-coast : Virginia and Carolina. $\frac{1}{2}$. June, July. *v. v.* Berries black.
- nitidum*. 8. *V. glaberrimum ; foliis lineari-lanceolatis supra nitidis obsolete serratis integrisve ; ramis tetragonis.—Willd. sp. pl.* 1. p. 1492.
In sandy barren woods : Carolina and Georgia. $\frac{1}{2}$. *v. v. s. fl.* A low shrub with small leaves.
- dentatum*. 9. *V. glabriusculum ; foliis suborbiculatis ovatisque acutis dentato-serratis plicato-sulcatis utrinque glabris, cymis pedunculatis, fructibus subglobosis.—Willd. sp. pl.* 1. p. 1488.
Icon. Jacq. hort. t. 36.
In mountain woods ; frequent : New York to Carolina. $\frac{1}{2}$. June, July. *v. v.* Berries dark blue ; known by the name of *Arrow-wood*.
- pubescens*. 10. *V. pubescens ; foliis ovalibus acuminatis dentato-serratis plicato-sulcatis subtus villosò-tomentosis, cymis pedunculatis, fructibus oblongis.*
V. dentatum pubescens. Ait. kew. 1. p. 168.
V. dentatum tomentosum. Mich. fl. amer. 1. p. 179.
In the lower parts of Virginia and Carolina. $\frac{1}{2}$. June. *v. v.* The whole of the shrub smaller than the preceding one.
- lantanoïdes*. 11. *V. petiolis nervisque pulverulento-tomentosis, foliis amplis suborbiculato-cordatis abruptè acuminatis inæqualiter serratis, serraturis muticis, cymis arcte sessilibus, fructibus ovatis.—Mich. fl. amer.* 1. p. 179.
V. Lantana grandifolium. Ait. kew. 1. p. 168.
In shady woods on high mountains : Canada to Virginia ; principally in the forests called *Beech-woods*. $\frac{1}{2}$.

June, July. *v. v.* Berries red, but when ripe black ; known by the name of *Hobble-bush*.

12. *V. ramulis petiolisque pilosis eglandulosis, foliis subcordato-ovatis trilobisve acuminatis argute-serratis subtus pubescentibus, cymis longe-pedunculatis.*—*Willd. sp. pl.* 1. *p.* 1489. *acerifolium.*

Icon. *Vent. hort. cels. t.* 72.

In rocky mountainous situations : New England to Carolina. $\frac{1}{2}$. May, June. *v. v.* Berries black.

13. *V. foliis suborbiculato-cordatis plicato-sulcatis dentatis subtus pubescentibus, petiolis subglandulosis, cymis radiatis, fructibus oblongo-ovatis.* *Mich. fl. amer.* 1. *p.* 180. *molle.*

V. alnitolium. *Marsh. arb.* 162.

In hedges : Kentucky near Danville. *Michaux.* Tennessee and Upper Carolina. $\frac{1}{2}$. June, July. *v. s.* Berries red ; resembles the following species.

14. *V. foliis trilobatis postice acutis 3-nervibus : lobis divaricatis promissa acuminatis rariter dentatis, petiolis glandulosis, cymis radiatis.* *Oxycoccus.*

V. Opulus americanum. *Ait. kew.* 1. *p.* 168.

V. Opulus Pimina. *Mich. fl. amer.* 1. *p.* 180.

V. trilobum. *Marsh. arb.* 162.

In swamps and shady woods : Canada ; on the mountains of New York and New Jersey. $\frac{1}{2}$. July. *v. v.* Berries red, of an agreeable acid ; resembling that of Cranberries, *Vaccinium macrocarpon*, for which they are a very good substitute.

15. *V. foliis trilobatis, postice obtusiusculis 3-nervibus : lobis brevissimis denticulato-serratis, serraturis acuminatis, petiolis glandulosis, cymis radiatis.* *edule.*

V. Opulus edule. *Mich. fl. amer.* 1. *p.* 180.

On the banks of rivers : Canada to New York. $\frac{1}{2}$. July. *v. v.* A smaller and more upright shrub than the preceding species ; berries the same colour and size, but, when completely ripe, more agreeable to eat.

261. SAMBUCUS. *Gen. pl.* 505.

1. *S. ramulis petiolisque glaberrimis, foliolis sub-4-jugis oblongo-ovalibus nitidis glabris acuminatis : nervo medio subpubescente, basi interdum appendiculatis, cymis laxis 5-fidis.*—*Willd. sp. pl.* 1. *p.* 1494. *canadensis.*

Icon. *Schmidt arb.* 142.

In swamps and near hedges : Canada to Carolina. $\frac{1}{2}$.
June, July. *v. v.* Berries dark purple or black.

pubescens. 2. *S. cortice verrucoso, foliolis 2-jugis ovali-lanceolatis subtus pubescentibus, cymis confertis racemosis.*—*Michx. fl. amer.* 1. p. 181.

On the highest mountains from Canada to Carolina.
 $\frac{1}{2}$. July. *v. v.* Berries red ; resembles *S. racemosa* very much.

262. RHUS. *Gen. pl.* 502.

typhinum. 1. *R. subarborescens ; ramis petiolisque villosissimis, foliis pinnatis multijugis, foliolis lanceolato-oblongis argute serratis subtus subtomentosis.*—*Willd. sp. pl.* 1. p. 1478.

Icon. *Duham.* 2. t. 47.

In rocky dry situations : Canada to Virginia. $\frac{1}{2}$. July, Aug. *v. v.* The purple velvety berries appear in large close clusters.

glabrum. 2. *R. undique glabrum ; foliis pinnatis multijugis, foliolis lanceolato-oblongis serratis subtus albicantibus, fructibus holosericeis.*—*Willd. sp. pl.* 1. p. 1478.

coccineum. β . *R. elegans.* *Ait. kew.* 1. p. 162. *Catesb. car. appen.* t. 4. Icon. *Dill. elth.* t. 243. f. 314. *Catesb. car.* 3. t. 4.

Common in old fields and along fences : New England to Carolina. $\frac{1}{2}$. July, Aug. *v. v.* Berries red ; flowers greenish-red ; in $\heartsuit$ var. β . scarlet.

viridiflorum. 3. *R. glabriusculum ; foliis pinnatis multijugis, foliolis lanceolato-oblongis serratis subtus subtomentosis, racemis erectis herbaceis.*—*Lam. encycl.* 7. p. 504.

R. canadense. *Mill. dict.* no. 5.

On the edges of woods, in dry sunny situations : Pennsylvania and Virginia. $\frac{1}{2}$. July, Aug. *v. v.* Flowers yellowish-green ; probably not much more than a variety of the foregoing species.

pumilum. 4. *R. humile ; ramis petiolisque pubescentibus, foliis pinnatis multijugis, foliolis ovalibus vix acuminatis aut muticis inciso-dentatis subtus tomentosis, fructibus holosericeis.* *Michx. fl. amer.* 1. p. 182.

In Upper Carolina. $\frac{1}{2}$. July. *v. s.* in *Herb. Lyon.* ; *v. v.* in *Hortis*. Not above a foot high : it is the most poisonous of the genus, according to information from Mr. J. Lyon, who, by collecting the seed of this species, got poisoned all over his body, and was lamed for a considerable time.

5. *R. arborescens*, glaberrimum; foliis pinnatis multijugis, foliolis ovalibus abrupte acuminatis integris, panicula laxa, floribus dioicis, fructibus glabris.—*Willd. sp. pl.* 1. p. 1479.
Icon. *Dill. elth. t.* 292. *f.* 377. *Pluk. alm. t.* 145. *f.* 1.
In low copses: Canada to Carolina. $\frac{1}{2}$. July. *v. v.* Berries white.
6. *R. ramis punctatis*, foliis pinnatis multijugis (5—6), foliolis ovali-lanceolatis integerrimis supra lucidis, panicula foliosa, racemis sessilibus, floribus dioicis.—*Willd. sp. pl.* 1. p. 1480. *Copallinum*.
Icon. *Hort. schænbr.* 341. *Pluk. alm. t.* 56. *f.* 1.
In dry fields and woods, particularly sandy soil: New Jersey to Carolina. $\frac{1}{2}$. July. *v. v.* Berries red. The leaves of this species are used as tobacco by the Indians of the Missouri and Mississippi.
7. *R. radicans*; foliis ternatis, foliolis ventricoso-ovalibus integris aut sinuate-crenatis, racemis ramis et axillaribus sessilibus dioicis.—*Willd. sp. pl.* 1. p. 1481. *Toxicodendron*.
Mich. fl. amer. 1. p. 183.
- α. *R. radicante-scandens*; foliolis amplis integris seu rariter dentatis. *Mich. l. c.* *vulgare*.
R. radicans. Willd. sp. pl. 1. p. 1481.
- β. *R. erectum*, humile; foliolis varie sinuato-lobatis, sub quercifolium. floratione tomentosis. *Mich. l. c.*
- γ. *R. foliolis oblongo-ovalibus longe acuminatis subrhombicis*, microcarpon, boideis, fructu multo minore. *Mich. l. c.*
Common in all woods, fields, and along fences: Canada to Georgia. $\frac{1}{2}$. June, July. *v. v.* Berries white; known by the name *Poison-oak* or *Poison-vine*. There is no doubt but *R. radicans* and *Toxicodendron* are only local varieties.
8. *R. fruticosum*, amentaceum, nudiflorum; foliis ternatis, foliolis rhombico-ovalibus dentatis subtus pubescentibus, floribus dioicis.—*Willd. sp. pl.* 1. p. 1482. *aromaticum*.
R. canadense. Marsh. arb. 129.
Icon. *Turpin in annal. du mus. hist. nat.* 5. p. 445. *t.* 30.
In rocky situations, about springs: Pennsylvania, Carolina, and Kentucky. $\frac{1}{2}$. May, June. *v. v.* Flowers yellow, in catkins, which give it quite a different appearance from the habitus of the genus. *Myrica trifoliata* Hort. is the same with *R. suaveolens* Ait. and is nothing more than the male plant of this species. Berries brown.

263. STAPHYLEA. *Gen. pl.* 507.*trifolia.*

1. *S. foliis trifoliatis* : racemis pendulis, petalis inferne ciliatis, fructu ovato.—*Willd. sp. pl.* 1. p. 1498.

Icon. *Schmidt arb.* 81.

On the side of dry hills, in rocky situations : New York to Upper Carolina. ♀. May, June. *v. v.* Flowers white.

264. TURNERA. *Gen. pl.* 514.*cistoides.*

1. *T. hirsuta* ; foliis lineari-lanceolatis obtuse dentato-serratis, pedunculis axillaribus folio brevioribus.—*Willd. sp. pl.* 1. p. 1505.

Icon. *Plum. ic. t.* 150. *f.* 1. *Sloan. jam.* 1. *t.* 127. *f.* 7.

In dry sandy woods, near the town of Savannah, Georgia. *Enslen. ☉.* July. *v. s. in Herb. Enslen.* Flowers yellow, resembling those of *Cistus carolinianus*.

265. CROTONOPSIS. *Mich. fl. amer.* 2. p. 185.*argentea.*

1. *C. caule erecto dichotome ramosissima, foliis supra stellato-pilosis, subtus argenteo-lepidotis.*

linearis.

- α. *C. foliis lineari-lanceolatis.* *Willd. sp. pl.* 4. p. 380. *Mich. fl. amer.* 2. p. 186.

elliptica.

- β. *C. foliis ellipticis utrinque obtusis.* *Willd. l. c.*

In sandy soil near the sea-coast, Illinois country and on the Missouri. ☉. July. *v. v.* Flowers very minute.

266. KOCHIA. *Roth in Schrad. journ.* 1800. p. 307.*dentata.*

1. *K. foliis lanceolatis sinuato-dentatis, caule erecto ramosissimo.*—*Willd. hort. berol.* 1. *t.* 28.

Salsola radiata. *Desf. in annal. mus. nat.* p. 28. *t.* 34.

Salsola platyphylla. *Mich. fl. amer.* 1. p. 174.

On the banks of the Mississippi, in the Illinois country.

☉. June. *v. v.* This plant has the aspect of a *Che-
nopodium* in every part.

267. AMARANTHUS. *Gen. pl.* 1431.*albus.*

1. *A. glomerulis axillaribus triandris, foliis obovatis retusis, caule tetragono simplici.* *Willd. sp. pl.* 4. p. 382.

Icon. *Willd. amaranth. t.* 1. *f.* 2.

A common weed in the gardens. ☉. May—Sept. *v. v.*

2. *A. glomerulis axillaribus triandris, floribus trifidis, foliis obovatis emarginatis, caule teretiusculo ramoso. Willd. sp. pl. 4. p. 382.*
Icon. Willd. amaranth. t. 4. f. 7.
 In cultivated grounds: Virginia. ☉. Aug. *v. v.* *græcizans.*
3. *A. glomerulis triandris subspicatis rotundatis, foliis ellipticis retusis, caule erecto. Willd. amaranth. p. 20. t. 1. f. 1.*
 In similar situations: Virginia. ☉. June—Aug. *v. v.* *lividus.*
4. *A. glomerulis triandris subspicatis, floribus triphyllis, foliis ovatis retusis, caule diffuso. Willd. sp. pl. 4. p. 387.*
 Frequently a very troublesome weed in gardens. ☉. June—Sept. *v. v.* *Blitum.*
5. *A. glomerulis axillaribus geminis triandris, floribus masculis triphyllis, foliis ellipticis emarginatis margine undulatis. Willd. amaranth. 18. t. 8. f. 16.*
 Frequently found on road sides and among rubbish. ☉. July, Aug. *v. v.* *viridis.*
6. *A. racemis pentandris decompositis congestis erectis, foliis ovato-lanceolatis. Willd. amaranth. p. 26. t. 9. f. 17.*
 Common in cultivated grounds: New York to Carolina. ☉. June—Sept. *v. v.* *hybridus.*
7. *A. racemis pentandris supradecompositis, ramis patentibus pubescentibus, foliis ovato-lanceolatis. Willd. amaranth. 32. t. 2. f. 2.*
 Among rubbish and in cultivated grounds: Pennsylvania to Virginia. ☉. Aug. *v. v.* *paniculatus.*
8. *A. racemis pentandris supradecompositis erectis, ramis patentibus glabris, foliis oblongis acutis. Willd. amaranth. 31. t. 2. f. 3.*
 In cultivated fields: Virginia and Carolina. ☉. July. *v. v.* *sanguineus.*
9. *A. racemis pentandris supradecompositis confertis erectis, ramis pubescentibus, foliis ovatis undulatis. Willd. amaranth. 33. t. 11. f. 21.*
 In cultivated grounds and on road sides: Pennsylvania to Virginia. ☉. June—Aug. *v. v.* *retroflexus.*
10. *A. racemis pentandris compositis confertis erectis, foliis oblongo-lanceolatis mucronatis. Willd. amaranth. 80.*
 Common in fields of Virginia. ☉. July, Aug. *v. v.* *hypochondriacus.*
 Leaves red.

- spinosus*. 11. *A. racemis* pentandris terminalibus compositis, axillis spinosis. *Willd. amaranth.* 38. t. 4. f. 8.
On road sides and among rubbish; frequent. ☉. June—Sept. *v. v.*
268. *ACNIDA*. *Gen. pl.* 1521. *Mich. fl. amer.* 2. p. 233.
- cannabina*. 1. *A. foliis* lanceolatis, capsulis læviusculis acutangulis. *Willd. sp. pl.* 4. p. 767.
On the banks of rivers and in marshes near the sea-coast: New England to Carolina. ☉. July, Aug. *v. v.*
- ruscocarpa*. 2. *A. foliis* ovali-lanceolatis, capsulis obtusangulis rugosis. *Willd. sp. pl.* 4. p. 767.
Icon. Mich. fl. amer. 2. t. 50.
In close swamps, on the banks of rivers among bushes: Virginia. ☉. July, Aug. *v. s. in Herb. Lyon.*
Very tall and robust.

IV. *TETRAGYNIA*.269. *PARNASSIA*. *Gen. pl.* 523.

- palustris*. 1. *P. foliis* radicalibus cordatis, nectariis multisetis.—*Willd. sp. pl.* 1. p. 1516.
Icon. Fl. dan. 584. *Engl. bot.* 82.
In bog meadows: Pennsylvania and Virginia. ♀. July, Aug. *v. v.* Flowers white, with netted veins of green or pale purple.
- caroliniana*. 2. *P. foliis* radicalibus suborbiculatis, nectariis trisetis. *Mich. fl. amer.* 1. p. 184.
Icon. Bot. mag. 1459.
In swamps and mosses: New York to Virginia. ♀. July, Aug. *v. v.* Flower the same as No. 1.
- asarifolia*. 3. *P. foliis* radicalibus reniformibus, petalis unguiculatis, nectariis trifidis. *Vent. malmais.* 39. t. 39.
On high mountains in Virginia and Carolina. ♀. July, Aug. *v. v.* Larger in leaves and flowers than the preceding species.

V. PENTAGYNIA.

270. ARALIA. *Gen. pl.* 525.

1. *A. subacaulis*, unifoliata ; folio tritermato vel triquinato : foliolis oblongo-ovalibus, scapo nudo folio brevior, umbellulis paucis.—*Willd. sp. pl.* 1. p. 1521. *nudicaulis.*

Icon. *Pluk. alm. t.* 238. *f.* 5.

In shady rocky woods : Canada to Carolina. $\frac{1}{2}$. May, June. *v. v.* Commonly called *Sarsaparilla*, and as such used in the shops.

2. *A. divaricato-ramosa* ; petiolis 3-partitis, partitionibus 3—5-foliolatis, foliolis plerisque cordatis, ramulis axillaribus foliosis, umbellulis pluribus subpaniculatis superne aphyllis.—*Willd. sp. pl.* 1. p. 1521. *racemosa.*

Icon. *Cold. canad. t.* 75. *Moris. hist.* 1. s. 1. t. 2. *f.* 9.

In rocky and shady situations : Canada to Virginia. $\frac{1}{2}$. June—Sept. *v. v.* Known by the name of *Spike-nard*, and highly esteemed as a medicine.

3. *A. humilis*, suffruticosa ; caulibus petiolisque setis hispidis, foliis duplicato-pinnatis, foliolis ovatis inciso-serratis inermibus glabris, umbellulis longissime pedunculatis.—*Michx. fl. amer.* 1. p. 185. *hispida.*

Icon. *Bot. mag.* 1085. *Vent. hort. cels.* 41.

In stony woods : Canada, New England, &c. On high mountains : Pennsylvania, Virginia. $\frac{1}{2}$. June, July. *v. v.* Called *Wild Elder*.

4. *A. caule arborescente foliisque spinosis, foliis duplicato-pinnatis, foliolis leviter serratis, panícula ramosissima, umbellis numerosis.*—*Willd. sp. pl.* 1. p. 1520. *spinosa.*

β . *A. caule spinoso glauco, foliis inermibus.* *inermis.*

Icon. *Schmidt arb.* 102 & 103. *Comm. hort.* 1. t. 47.

In fertile low woods of Lower Virginia and Carolina, likewise in the Illinois country. $\frac{1}{2}$. Aug. Sept. *v. v.* Known by the name of *Angelica-tree*. The berries used in an infusion of wine or spirits are a remarkable medicine for relieving rheumatic pains. The var. β . was found near Charlestown, South Carolina ; I have not seen its flowers.

271. ZANTHOXYLUM. *Gen. pl.* 1512.

1. *Z. aculeatum* ; foliis pinnatis, foliolis ovali-lanceolatis subintegerrimis sessilibus basi æqualibus, petiolo com- *frazineum.*

muni inermi, umbellis axillaribus.—*Willd. sp. pl.* 4. p. 754.

Z. Clava Herculis β. *Linn. sp. pl.* 1455.

Z. ramiflorum. *Mich. fl. amer.* 2. p. 235.

Icon. *Duham. arb.* 1. t. 97.

In shady woods, near rivers: Canada to Virginia and Kentucky. ♀. April, May. *v. v.* A tincture of the bark and capsules is recommended in rheumatism and tooth-ach, from which its name *Tooth-ach-tree*.

tricarpon.

2. *Z. aculeatum*; foliis pinnatis, foliolis petiolatis oblongo-ovalibus acuminatis serrulatis basi obliquis, petiolo communi aculeato, capsulis ternis sessilibus.—*Mich. fl. amer.* 2 p. 235.

In woods of Carolina and Florida. *Michaux.* ♀. July. *v. v. in Hortis.*

272. LINUM. *Gen. pl.* 528.

usitatissimum.

1. *L. foliolis calycinis ovatis acutis trinervibus, petalis crenatis, foliis lanceolatis alternis, caule subsolitario.*—*Willd. sp. pl.* 1. p. 1533.

Icon. *Engl. bot.* 1357.

Common flax is frequently found in old fields, apparently indigenous. ☉. June, July. *v. v.* Flowers blue.

Lewisii.

2. *L. foliolis calycinis ovatis acuminatis, petalis cuneatis apice rotundatis, foliis sparsis lanceolato-linearibus mucronatis, caulibus altis numerosis.*

In the valleys of the Rocky-mountains and on the banks of the Missouri. *M. Lewis.* ♀. July. *v. v.* Flowers large, blue; a very good perennial, and it probably might become an useful plant if cultivated.

virginicum.

3. *L. foliolis calycinis acutis panicula terminali, floribus remote alternis, foliis lineari-lanceolatis sparsis: radicalibus ovatis.*—*Willd. sp. pl.* 1. p. 1538.

On dry sunny hills and fields: New York to Virginia. ☉. July, Aug. *v. v.* Flowers small, yellow.

rigidum.

4. *L. foliolis calycinis ovatis acuminatis trinervibus ciliatis, petalis oblongis angustissimis, foliis rigide-erectis linearibus brevibus.*

On the Missouri. *Nuttall. v. s.* Flowers sulphur-yellow.

273. DROSERA. *Gen. pl.* 531.

rotundifolia.

1. *D. scapis radicatis simplicibus, foliis suborbiculatis basi attenuatis, petiolis elongatis pilosis.*—*Willd. sp. pl.* 1. p. 1543. *Mich. fl. amer.* 1. p. 186.

Icon. *Fl. dan.* 1028.

In swamps filled with sphagnum, as all the following species, generally on sandy or gravelly ground. $\mathcal{U}$. July, Aug. *v. v.* Flowers white; a very delicate and curious plant, as are all the rest of this genus.

2. *D. scapis radicatis simplicibus, foliis spathulato-obovatis, petiolis elongatis nudis.*—*Willd. sp. pl.* 1. *p.* 1544. *Mich. fl. amer.* 1. *p.* 186. *longifolia.*

Icon. *Engl. bot.* 868. *Moris. hist.* 1. *s.* 15. *t.* 4. *f.* 2.

In similar situations: Canada to Carolina. $\mathcal{U}$. July. *v. v.*

3. *D. pusilla*; *scapis radicatis simplicibus, foliis brevibus cuneatis vix petiolatis, petalis ovalibus.* *brevifolia.*

In sandy swamps of Georgia. *Enslen. G.* June. *v. s. in Herb. Enslen.* The smallest of all the species known; flowers rose-coloured.

4. *D. scapis radicatis subramosis, foliis filiformibus longissimis.* *filiformis.*

In the pine-barrens of New Jersey near Tuckerton. $\mathcal{U}$. June. *v. v.* Flowers large, purple.

Radix: Hybernaculum squamosum, extus ferrugineo-lanuginosum. *Folia* primordialia glabra, dilatato-subulata; secundaria radicalia spiraliter erumpentia, angustissime linearia subtus glabra, supra pilis rubris viscidis tecta, 9—12 pollices longa. *Scapi* erecti, pedales et ultra, teretes, glabri, interdum vivipari, bulbiferi. *Racemus* spicatus, unilateralis, recurvatus, simplex seu ramosus. *Flores* pedicellati, erecti, magni, purpurei. *Styli* sex, interdum novem.

This elegant species I discovered about 1805, in the place above mentioned: this extensive swamp, interspersed with barren sand hills, might be called a natural botanic garden, uniting a number of southern plants with those of the north, as mentioned in the preface.

274. SIBBALDIA. *Gen. pl.* 536.

1. *S. erecta, foliis linearibus multifidis.* *Willd. sp. pl.* 1. *p.* 1567. *erecta.*

Icon. *Amm. ruth. t.* 15.

On the banks of the Missouri. *Nuttall. U.* July. *v. s. in Herb. Nuttall.* Flowers small, flesh-coloured.

2. *S. procumbens, foliis tridentatis.* *Willd. sp. pl.* 1. *procumbens.*

Icon. *Fl. dan.* 32. *Pluk. alm. t.* 212. *f.* 3.

On the Missouri. *Nuttall.* On high mountains of Canada and Vermont. $\mathcal{U}$. April. *v. s.* Flowers yellow.

275. STATICE. *Gen. pl.* 527.

- Armeria.* 1. *S. scapo simplici capitato, foliis linearibus planis obtusis.*
Willd. sp. pl. 1. *p.* 1522.
Icon. Engl. bot. 226. *Thrift. Sea Gilliflower.*
 On rocks near the sea-shore: Pennsylvania to Virginia.
 July, Aug. *v. v.* Flowers rose-coloured.
- caroliniana.* 2. *S. scapo tereti, panicula divaricato-ramosissima, calycibus acutis, foliis lanceolato-oblongis obtusiusculis glabris margine planis.*—*Walt. fl. car.* 118.
 In salt-marshes along the sea-coast: New Jersey to Carolina. *¶*. Aug. Sept. *v. v.* Flowers blue; resembles *St. gmelini* in some respects.

VI. POLYGYNIA.

276. ZANTHORHIZA. *Gen. pl.* 1581.

- aphylla.* 1. *Zanthorhiza. Willd. sp. pl.* 1. *p.* 1568.
Zanthorhiza simplicissima. Marsh. arb. 168.
Icon. L'Herit. stirp. 1. *t.* 38.
 On shady banks of rivers: Virginia to Georgia. *h*.
 May. *v. v.* A small shrub with compound leaves,
 and small dark-purple flowers in panicles.

277. SCHISANDRA. *Mich. fl. amer.* 2. *p.* 218.

- coccinea.* 1. *S. glabra, foliis lanceolato-ovalibus utrinque acutis rari-ter subdentatis. Mich. fl. amer.* 2. *p.* 219.
Icon. Mich. l. c. t. 47. *Bot. mag.* 1413.
 In shady woods of Carolina and Georgia. *h*. June.
v. v. A handsome climbing plant; flowers scarlet.

VI. HEXANDRIA.

I. MONOGYNIA.

* *Flores calyculati.*

278. BURMANNIA. *Cal.* inferus, 1-phyllus, prismaticus, coloratus. *Pet.* 3. *Caps.* 3-locularis. *Sem.* minuta.
279. TILLANDSIA. *Cal.* inferus, 3-fidus, persistens. *Cor.* 3-fida, tubulosa. *Caps.* 1—3-locularis. *Sem.* comosa.
280. TRADESCANTIA. *Cal.* inferus, 3-phyllus. *Pet.* 3. *Filam.* villis articulatis. *Caps.* 3-locularis.
281. DIPHYLLEJA. *Cal.* inferus, 3-phyllus, deciduus. *Pet.* 6. calyce opposita. *Anth.* membrana a basi ad apicem solubili dehiscentes. *Bac.* 1-locularis. *Sem.* 2—3. subrotunda.
282. CAULOPHYLLUM. *Cal.* inferus, 6-phyllus. *Pet.* 6. calyce opposita. *Anth.* loculis margine dehiscentes. *Drupa* 1-sperma.
283. BERBERIS. *Cal.* inferus, 6-phyllus, extus 3-bracteatus. *Pet.* 6. ad ungues glandulis 2. *Styl.* 0. *Stigm.* umbilicatum. *Bac.* 1-locularis, 2—4-sperma.
284. PRINOS. *Cal.* inferus, 6-fidus. *Cor.* 1-petala, rotata, 3—7-fida. *Bac.* 6-sperma. *Dioicus.*
285. GLEDITSCHIA. ♂. *Cal.* 4-fidus. *Pet.* 4. *Legumen.* ♂. *Cal.* 3-phyllus. *Pet.* 3. ♀. *Cal.* 5-phyllus. *Pet.* 5. *Legumen.* *Polygama.*

** *Flores spathacei.*

286. PANCRACTIUM. *Cor.* supera, infundibuliformis: tubo longo. *Nectar.* campanulatum, 12-fidum. *Stam.* nectario imposita.
287. AMARYLLIS. *Cor.* supera, campanulata. *Stam.* inæqualia. *Pist.* declinatum.

288. *ALLIUM*. *Cor.* infera, 6-partita, patens. *Spatha* multiflora. *Umbella* congesta. *Capsula*.
 289. *BRODIAEA*. *Cor.* infera, campanulata, 6-partita. *Filam.* faucis inserta. *Germ.* pedicellatum. *Caps.* 3-locularis: loculis polyspermis.
 290. *PONTEDERIA*. *Cor.* infera, 6-fida, bilabiata. *Stam.* 3. summo, 3. medio tubo corollæ inserta. *Caps.* 3-locularis.
 291. *HYPOXIS*. *Cor.* supera, 6-partita, persistens. *Spatha* 2-valvis. *Caps.* elongata. *Sem.* subrotunda, nuda.

*** *Flores nudi.*

292. *CONOSTYLIS*. *Cor.* semi-supera, 6-fida, persistens, lanata pilis ramulosis. *Anth.* erectæ. *Stylus* conicus, tripartibilis. *Stigm.* simplex. *Caps.* apice dehiscent, 3-locularis, polysperma.
 293. *ALETIRIS*. *Cor.* semi-supera, tubulosa, 6-fida, rugosa, persistens. *Stam.* summo tubo inserta. *Stylus* triqueter, tripartibilis. *Caps.* apice dehiscent, 3-locularis, polysperma.
 294. *AGAVE*. *Cor.* supera, 6-fida: limbo erecto. *Filam.* corolla longiora, erecta.
 295. *PHALANGIUM*. *Cor.* infera, 6-partita. *Stam.* filamentis filiformibus, nudis. *Sem.* angulata.
 296. *NARTHECIUM*. *Cor.* infera, 6-petala, patens. *Filam.* filiformia, hirsuta. *Caps.* prismatica, 3-locularis, polysperma. *Sem.* utrinque arillo subulato instructa.
 297. *ORNITHOGALUM*. *Cor.* infera, 6-partita. *Filam.* 3. alterna basi dilatata. *Caps.* subrotunda, 3-locularis. *Sem.* subrotunda, nuda.
 298. *YUCCA*. *Cor.* infera, campanulata, laciniis non nectariferis. *Filam.* clavata. *Styl.* 0. *Caps.* oblonga, obtuse 3-gona. *Sem.* plana.
 299. *LILIUM*. *Cor.* infera, 6-petala, campanulata: linea longitudinali nectarifera. *Stam.* stylo breviora. *Stigm.* indivisum. *Caps.* 3-gona. *Sem.* plana.
 300. *FRITILLARIA*. *Cor.* infera, 6-petala, campanulata, laciniis rectis supra ungues cavitate nectarifera. *Stam.* longitudine corollæ. *Sem.* plana.
 301. *ERYTHRONIUM*. *Cor.* infera, 6-petala, campanulata, laciniis a medio reflexis, 3. interioribus basi intus 2. callosis. *Caps.* subglobosa. *Sem.* oblonga.
 302. *UVULARIA*. *Cor.* infera, 6-petala, campanulata, laciniis rectis, unguibus fovea nectarifera excavatis.

Filam. brevissima. *Stigm.* reflexa. *Caps.* trigona, 3-valvis : valvis medio septiferis. *Sem.* plura, subglobosa, ad hilum arillata.

303. STREPTOPUS. *Cor.* infera, 6-petala, subcampanulata. *Stigm.* brevissima. *Bacca* subglobosa, lævigata, carthacea, 3-locularis. *Sem.* pauca, hilo nudo.
304. CONVALLEARIA. *Cor.* infera, 6-fida, campanulata. *Stam.* corolla breviora, ad basin inserta. *Bacca* globosa, 3-locularis : loculis 1-2-spermis. *Scapus* ramosus.
305. SMILACINA. *Cor.* infera, 6-partita, patens. *Filam.* divergentia, laciniarum basi infixa. *Bacca* globosa, 3-locularis. *Flores* terminales paniculati s. subumbellati.
306. POLYGONATUM. *Cor.* infera, 6-fida, cylindrica. *Filam.* tubo superne inserta. *Bacca* globosa, 3-locularis : loculis 2-spermis. *Flores* axillares.
307. ASPARAGUS. *Cor.* infera, 6-partita, erecta : petalis 3. interioribus apice reflexis. *Bacca* 3-locularis, polysperma. *Folia* fasciculata.

*** *Flores incompleti.*

308. ORONTIUM. *Spadix* cylindricus, flosculis tectus. *Spatha* o. *Cal.* 6-partitus. *Stigm.* 2-fidum. *Folliculus* 1-spermus.
309. ACORUS. *Spadix* cylindricus, flosculis tectus. *Cal.* 6-partitus. *Stigm.* punctum prominens. *Caps.* 3-locularis, 3-sperma.
310. JUNCUS. *Cal.* inferus, 6-partitus, æqualis. *Stigm.* 3-lobum. *Caps.* 1-locularis, polysperma.
311. PEPLIS. *Cal.* inferus, 12-fidus. *Caps.* 2-locularis, polysperma.

II. DIGYNIA.

312. NECTRIS. *Cal.* 6-partitus : laciniis 3. interioribus petaloideis minoribus obtusis. *Utriculi* bini 1-2-spermi. *Sem.* globosa.

III. TRIGYNIA.

313. SABAL. *Spathæ* partiales. *Filam.* libera, basi incrassata. *Bacca* 1-sperma. *Sem.* osseum.
314. CHAMÆROPS. *Spatha* compressa. *Spadix* ramo-

- sus. *Cal.* 3-partitus. *Pet.* 3. *Filam.* submonadelphæ. *Drupæ* 3. monospermæ. *Polygama.*
315. **NOLINEA.** *Cor.* 6-partita, patens: laciniis subæqualibus. *Styl.* brevissimus. *Stigm.* recurva. *Caps.* 3-gona, membranacea, 3-locularis, dissepimentis bipartilibus dehiscens. *Sem.* solitaria, hinc convexo-incurva.
316. **CALOCHORTUS.** *Cor.* 6-partita, patens: laciniis 3. interioribus majoribus supra lanatis, basi macula glabra subrotunda notatis. *Filam.* brevissima, basi petalorum inserta. *Anth.* erectæ, sagittatæ. *Stigm.* reflexa. *Caps.* 3-locularis.
317. **MELANTHIUM.** *Cor.* 6-partita, patens: laciniis æqualibus unguiculatis: unguiculis staminiferis, laciniis basi biglandulosis. *Caps.* subovata, apice subtrifida, 3-locularis. *Sem.* plura, alato-membranacea. *Polygamum.*
318. **ZIGADENUS.** *Cor.* 6-partita, patens: laciniis subæqualibus, supra basin angustatam biglandulosis. *Stam.* ad contactum ovarii inserta. *Styli* 3. contigui. *Caps.* membranacea, 3-locularis. *Sem.* plurima, aptera.
319. **VERATRUM.** *Cor.* 6-partita, patens: laciniis sessilibus, eglandulosis. *Stam.* receptaculo inserta. *Caps.* 3. polyspermæ. *Polygamum.*
320. **HELONIAS.** *Cor.* 6-partita, patens: laciniis sessilibus eglandulosis. *Caps.* 3-locularis, 3-cornis seu 3-cocca. *Sem.* pauca (1-2).
321. **MEDEOLA.** *Cor.* 6-partita, revoluta. *Bacca* 3-sperma.
322. **TRILLIUM.** *Cor.* 6-petala, patens: laciniis 3. exterioribus angustioribus calycinis. *Bacca* 3-locularis.
323. **TOFIELDIA.** *Cor.* 6 petala, æqualis, calyculo minimo 3-partito cincta. *Caps.* 3. polyspermæ, basi junctæ.
324. **TRIGLOCHIN.** *Cal.* 6-phyllus: laciniis 3. interioribus petaloideis. *Cor.* 0. *Styl.* 0. *Caps.* basi dehiscens.
325. **SCHEUCHZERIA.** *Cal.* 6-partitus. *Cor.* 0. *Styl.* 0. *Stigm.* lateralæ. *Caps.* 3. inflatæ, distinctæ, 1-spermæ.
326. **RUMEX.** *Cal.* 3-phyllus. *Pet.* 3. conniventia. *Sem.* 1. triquetrum.

327. SMILAX. *Cal.* 6-phyllus. *Cor.* 0. *Bacca* 3-locularis. *Sem.* 2. *Dioica*.
 328. DIOSCOREA. *Cal.* 6-partitus. *Cor.* 0. *Caps.* 3-locularis, compressa. *Sem.* 2, membranacea.

IV. TETRAGYNIA.

329. SAURURUS. *Cal.* amentum squamis 1-floris. *Cor.* 0. *Baccæ* 4. monospermæ.

V. POLYGYNIA.

330. WENDLANDIA. *Cal.* 6-phyllus. *Cor.* 6-petala, succulenta. *Styl.* reclinati. *Caps.* 6. uniloculares, monospermæ.
 331. ALISMA. *Cal.* 3-phyllus. *Pet.* 3. *Caps.* plures, monospermæ.

I. MONOGYNIA.

278. BURMANNIA. *Gen. pl.* 542.

1. *B. flore gemino* ; *alis semicuneatis apice truncatis*.— *biflora*.
Willd. sp. pl. 2. p. 16.
 In swamps of Virginia. $\mathcal{U}$. Sept. *v. s. in Herb. Gro-*
nov. Flower pale purple. This delicate little plant
 I never was lucky enough to find myself.

279. TILLANDSIA. *Gen. pl.* 541.

1. *T. cæspitosa, pruinosa* ; *foliis subulatis recurvatis, scapo* *recurvata*.
setaceo foliis longiore summitate subbifloro.—*Willd.*
sp. pl. 2. p. 14.
Icon. Sloan. hist. 1. t. 121. f. 1.
 Parasitic, on old trees : Florida and Georgia. $\mathcal{U}$. June.
v. v. Flowers purple.
 2. *T. filiformis, intorta, pruinosa* ; *floribus solitariis sessili-* *usneoides*.
bus.—*Willd. sp. pl.* 2. p. 15.
Icon. Sloan. jam. 1. t. 122. f. 2 & 3. *Pet. gaz.* t. 62.
f. 12.

Parasitic, on old trees, in shady woods: Virginia to Florida. 4. July. *v. v.* Flowers yellowish-green. This singular plant, known by the name of *Long-moss*, does not extend further north than the neighbourhood of the Dismal Swamp in Virginia. The fibres of it, when divested of the outside coating, make excellent mattresses, and are a very good substitute for horse-hair for that purpose.

280. *TRADESCANTIA*. *Gen. pl.* 543.

- virginica*. 1. *T. erecta*; foliis lanceolatis elongatis glabris, floribus sessilibus umbellato-congestis pubescentibus.—*Willd. sp. pl.* 2. p. 16.
Icon. Bot. mag. 105. *Moris. hist.* 3. s. 5. t. 2. f. 4.
 In shady woods: Pennsylvania to Carolina. 4. May, June. *v. v.* Flowers blue or purple.
- rosea*. 2. *T. erecta*; foliis lineari-gramineis prælongis, pedunculis elongatis umbellatis paucifloris, calycibus glabris.—*Mich. fl. amer.* 1. p. 193.
Icon. Vent. hort. cels. t. 24.
 In wet sandy fields: Carolina and Georgia. 4. June, July. *v. v.* Flowers rose-coloured, small, but very handsome.

281. *DIPHYLLEJA*. *Mich. fl. amer.* 1. p. 203.

- cymosa*. 1. *D. glaberrima*; foliis subpalmatis angulato-lobatis serratis: lobis acuminatis, cyma multiflora. *Mich. l. c.*
Icon. Mich. l. c. t. 19 & 20.
 Near rivulets on the high mountains of Virginia and Carolina. 4. May, June. *v. v.* Flowers white; berries dark blue: the whole of the plant has the appearance of *Podophyllum peltatum*.

282. *CAULOPHYLLUM*. *Mich. fl. amer.* 1. p. 204.

- thalictroides*. 1. *C. glaberrimum*; foliis supradecompositis, foliolis ovalibus, inferioribus petiolatis lobatisque, extremo trilobato.—*Mich. l. c. t.* 21.
Leontice thalictroides. Willd. sp. pl. 2. p. 149.
 In shady woods, on the side of fertile hills: New England to Virginia. 4. May, June. *v. v.* Flowers yellowish-green; berries large, blueish-black; called by the Indians *Co-kosh*, and esteemed as a medicinal plant among them.

Berberis nervosa.

Berberis aquifolium.

283. BERBERIS. *Gen. pl.* 595.

1. *B. erecta*; ramis confertim punctatis, aculeis triplicibus, foliis simplicibus obovatis remote serratis, racemis brevibus subcorymbosis, drupis vix carnosius. *canadensis.*

B. vulgaris var. *Willd. sp. pl.* 2. p. 227. *Mich. fl. amer.* 1. p. 205.

On fertile hills, among rocks, &c. Canada to Virginia. $\frac{1}{2}$. April, May. *v. v.* Flowers yellow, in pendulous racemes; berries red, of an agreeable acid.

2. *B. sarmentosa*, inermis; foliis pinnatis: foliolis sub-3-jugis oblongis repando-dentatis venosis, petalis bidentatis. *Aquifolium.*

B. pinnata. Herb. Banks.

On the great rapids of Columbia River, among rocks, in rich vegetable soil. *M. Lewis.* $\frac{1}{2}$. April, May. *v. s. in Herb. Lewis.* Flowers yellow, in large clusters; berries dark purple, eatable; called by Lewis's company *Mountain-holly*.

Caulis fruticosus, laxè ramosus: ramis sarmentosis, procumbentibus. *Folia* sempervirentia alterna, petiolata, impari-pinnata. *Foliola* 3-juga, opposita, sessilia, impari-petiolata, oblongo-ovata, basi oblique truncata, margine cartilaginea repando-dentata, coriacea, utrinque glabra, lævigata, nitida: dentibus aculeatis. *Petiolis* teretes, glabri. *Racemi* congesti, bracteati, e gemma precedentis anni. *Flores* aurei. *Bracteæ* caducæ, solitariae, subcordatae, acuminatae, membranaceae. *Calyx* triplex, deciduus, patens: exterior minimus, 3-phyllus: foliolis ovatis, acutis; medius triplo longior: foliolis suborbiculatis, membranaceis, nervosis; interior longior: foliolis ovalibus, membranaceis, nervosis. *Petala* 6. suberecta, oblonga, apice inciso-bidentata, vix longitudine calycis. *Filamenta* 6. corollæ breviora, crassa, medio bidentata: dentibus oppositis. *Antheræ* bilobæ, crassæ. *Germen* superum, ovatum. *Stigma* sessile, 3-lobum. *Bacca* 3-locularis, 3-sperma, abortione interdum monosperma.

3. *B. sarmentosa*, inermis; foliis pinnatis: foliolis 6-jugis ovato-oblongis repando-serratis, sub-5-nervibus, petalis integris. *nervosa.*

In the same situations. *v. s. in Herb. Lewis.*

The specific difference excluded, the description of the preceding species is applicable in every other respect, and together with another in the collection of A. B.

Lambert, Esq., collected in Napaul by Mr. Buchanan, forms a new division of the genus, with pinnated leaves; which probably may become a new genus, whenever the fruit is perfectly known, as the statement I have given of it was taken from a single and imperfect berry.

284. PRINOS. *Gen. pl.* 594.

- verticillatus.* 1. *P. foliis deciduis ovalibus serratis acuminatis subtus pubescentibus, fasciculis florum masc. axillaribus umbelluliformibus; femineis aggregatis utrinque 6-partitis.*—*Willd. sp. pl.* 2. p. 225.
P. Gronovii. Mich. fl. amer. 2. p. 236.
P. padifolius. Willd. enum. 394.
Icon. Duham. arb. 1. t. 23.
 In wet woods, on the banks of ditches; common: Canada to Virginia. $\frac{1}{2}$. June, July. *v. v.* Flowers small, white; berries red or crimson.
- ambiguus.* 2. *P. foliis deciduis ovalibus utrinque acuminatis mucronato-serrulatis subtus pubescentibus, floribus 4-5-fidis, masculis ad imos ramulos congestis, fœmineis solitariis.*—*Mich. fl. amer.* 2. p. 236.
Cassine caroliniana. Walt. fl. car. 242.
 In sandy wet woods and on the borders of swamps: New Jersey to Carolina. $\frac{1}{2}$. July, Aug. *v. v.* Flowers white; berries red, larger than No. 1.
- lœvigatus.* 3. *P. foliis deciduis lanceolatis adpresso-serratis acuminatis utrinque glabris supra nitidis, subtus ad nervos vix pubescentibus, floribus fœmineis axillaribus solitariis subsessilibus: masculis sparsis: omnibus 6-fidis.*
 On the Allegany-mountains: New York to Virginia. $\frac{1}{2}$. July. *v. v.* Berries large, dark-red.
- lanceolatus.* 4. *P. foliis deciduis lanceolatis tenuissime et remote serrulatis utrinque acutis utrinque glabris, floribus femineis sparsis subgeminis pedunculatis 6-fidis, masculis aggregatis 3-andris.*
 In the lower counties of Carolina and Georgia. $\frac{1}{2}$. June. *v. s.* Berries small, scarlet.
- glaber.* 5. *P. foliis sempervirentibus cuneato-lanceolatis coriaceis glabris nitidis superne pariter subdentatis, pedicellis axillaribus subsolitariis plerumque 3-floris.*—*Willd. sp. pl.* 2 p. 226.
 In sandy shady woods: Canada to Florida. $\frac{1}{2}$. July,

Aug. *v. v.* A low and handsome shrub ; berries black ; called in Jersey *Ink-berries*.

6. *P. foliis sempervirentibus cuneato-lanceolatis coriaceis glabris nitidis integerrimis, corymbis axillaribus brevissimis sessilibus multifloris, floribus 6-fidis.* *coriaceus.*

α. P. foliis obovato-lanceolatis acuminatis. *latifolia.*

β. P. foliis lanceolatis acutis. *angustifolia.*

In sandy woods, near the banks of rivers : Georgia.

Enslen. *h.* June, July. *v. s.* A handsome tall shrub, of the appearance of *Ilex Dahoon*.

Prinos lucidus Ait. is *Ilex canadensis* Mich. according to specimens in the Herbarium of A. B. Lambert, Esq.

285. GLEDITSCHIA. *Gen. pl.* 1526.

1. *G. spinis robustis cruciatim ramosis, foliolis lineari-oblongis, leguminibus longissimis compressis.—Willd.* *triacanthos.*
sp. pl. 4. *p.* 1097.

G. Meliloba. *Walt. fl. car.* 254.

Icon. Duham. arb. 1. *t.* 195. *Mich. arb. t.*

- β. G. ramis subinermibus.* *inermis.*

Near the sea-coast : Virginia and Carolina. *h.* July.

v. v. A large tree ; the pods contain a sweet pulp ; known by the name *Honey-locust*.

2. *G. spinis crassis brevibus subternatis, foliolis oblongis obtusis, leguminibus oblongis brevibus.* *brachycarpa.*

G. triacanthos β. brachycarpus. *Mich. fl. amer.* 2. *p.* 257.

In the Allegany mountains : on the Indian river, Virginia. *h.* July. *v. v.* This species is certainly distinct from No. 1, having short curved spines, sometimes solitary, sometimes by threes, on the old branches.

3. *G. ramis subspinosis, foliolis ovato-oblongis acutis, leguminibus ovalibus mucronatis submonospermis.—Willd. sp. pl.* 4. *p.* 1097.

G. carolinensis. *Lam. encycl.* 2. *p.* 461.

G. aquatica. *Marsh. arb.* 95.

Icon. Mich. arb. . . .

In the woods and on river banks : Carolina to Florida, and Illinois. *h.* July. *v. v.* *Swamp Locust-tree.*

286. PANCRATIUM. *Gen. pl.* 551.

1. *P. spatha subbiflora, foliis lanceolatis, nectariis dentibus sex staminiferis, intermediis simplicibus.* *Willd. sp. pl.* 2. *p.* 42. *mexicanum.*

Icon. *Dill. elth. t.* 222. *f.* 289.

On the sea-coast of Carolina and Georgia. ½. July, Aug. *v. v.* Flowers white, as are all the following.

rotatum.

2. *P. spatha multiflora*, foliis linearilanceolatis, nectariis hypocrateriformibus, inferne tubulosis, dentibus sex staminiferis, intermediis inciso-dentatis, staminibus nectario duplo longioribus.—*Ker in bot. mag.* 827.

On the sea-coast : Virginia to Florida. ½. July, Aug. *v. v.*

maritimum.

3. *P. spatha multiflora*, foliis linearilanceolatis, nectariis dentibus duodecim, non staminiferis. *Willd. sp. pl.* 2. *p.* 42.

P. carolinianum. *Linn. sp. pl.* 418.

P. verecundum. *Ait. kew.* 1. *p.* 412.

Icon. *Catesb. car.* 2. *app.* 5. *t.* 5. *Salisb. in linn. trans.* 2. *t.* 9.

On the coast of Carolina and Georgia. ½. July, Aug. *v. v.*

287. AMARYLLIS. *Gen. pl.* 554.

Alamasco.

1. *A. spatha bifida acuta*, flore pedicellato, corolla campanulata subæquali erecta, basi brevi tubulosa, staminibus declinatis æqualibus. *Willd. sp. pl.* 2. *p.* 51.

Icon. *Bot. mag.* 239. *L'Herit. sert. angl.* 10. *Catesb. car. app. t.* 12.

In shady woods and swamps : Virginia and Carolina. ½. June, July. *v. v.* Flowers rose-coloured.

288. ALLIUM. *Gen. pl.* 557.

vineale.

1. *A. caule teretifolio bulbifero*, staminibus tricuspidatis. *Willd. sp. pl.* 2. *p.* 73.

Icon. *Lob. ic.* 156.

In old fields ; common. ½. June, July. *v. v.*

fragrans.

2. *A. scapo nudo subtereti*, foliis linearibus planis acutis subcarinatis, corollis turbinato-campanulatis, laciniis obovatis, staminibus linearibus acuminatis tubo adnatis.—*Vent. malmais.* 26. *Redouté lil.* 2. *t.* 68.

A. inodorum. *Bot. mag.* 1129.

A. mutabile. *Mich. fl. amer.* 1. *p.* 195 ?

On the mountains of Virginia and Carolina. ½. June. *v. v.* Flowers white, with red veins.

striatum.

3. *A. scapo nudo subtriquetro*, foliis linearibus convoluto-concavis obtusiusculis dorso striatis, corollis patentibus,

laciniis oblongo-lanceolatis, staminibus alternis subulatis, alternis compressis.—*Bot. mag.* 1524. *Jacq. ic.* 2. t. 366. *Willd. sp. pl.* 2. p. 77.

A. ornithogaloides. *Walt. fl. car.* 121.

Ornithogalum bivalve. *Sp. pl. ed.* 1. p. 306.

In Virginia and Carolina. $\mathcal{U}$. June, July. *v. s. in Herb. Walt.* Flowers large, white, with a red carina.

4. *A. scapo nudo ancipiti, foliis linearibus canaliculatis subtus subangulatis, umbella fastigiata.* *Willd. sp. pl.* 2. p. 76. *angulosum.*

Icon. Gmel. sib. 1. t. 14. f. 2. *Jacq. austr.* 5. t. 425.

On the banks of the Missouri. *M. Lewis and Nuttall.*

$\mathcal{U}$. July. *v. s. in Herb. Lewis.* Flowers white.

5. *A. scapo nudo tereti foliis brevioribus, foliis lanceolatis nervosis, umbella pauciflora.* *triflorum.*

In shady woods, on the high mountains of Pennsylvania.

$\mathcal{U}$. May, June. *v. v.* *Mountain Leeks.*

6. *A. scapo nudo tereti, foliis linearibus, capitulo bulbifero.* *canadense.*

Willd. sp. pl. 2. p. 78.

In fields and woods: Canada to Carolina. $\mathcal{U}$. June. *v. v.*

7. *A. scapo nudo semitereti, foliis lanceolato-oblongis planis glabris, umbella globosa, seminibus solitariis.* *tricocon.*

Willd. sp. pl. 2. p. 81.

In shady woods: Pennsylvania to Virginia. $\mathcal{U}$. July. *v. v.*

289. BRODIAEA. *Smith in linn. trans.* 10. p. 2.

1. *B. umbella multiflora, floribus pedicellatis, staminibus alternis margine membranaceis.*—*Smith l. c.* *grandiflora.*

Hookera coronaria. *Salisb. par. lond.* t. 98.

On the plains of the Columbia and Missouri rivers.

M. Lewis. $\mathcal{U}$. April, May. *v. v.* This elegant bulbous plant, which M. Lewis, Esq. used to call *Missouri Hyacinth*, is certainly hexandrous; Dr. Smith having been misled, by dried specimens, to consider it to be only triandrous.

290. PONTEDERIA. *Gen. pl.* 545.

1. *P. foliis oblongo-cordatis obtusis, spica confertim-multiflora, corollae laciniis oblongis.*—*Willd. sp. pl.* 2. p. 23. *cordata.*

Icon. *Pluk. mant. t. 349. f. ult.* *Bot. mag.* 1156.

On the edges of rivers in the lower countries, from Canada to Florida. $\mathcal{U}$. July. *v. v.* Flowers blue.

- angustifolia.* 2. *P. foliis elongato-triangularibus sensim acutis basi truncato-subcordatis, corollæ laciniis lineari-lanceolatis.*
In high mountain-lakes: New York to Carolina. $\mathcal{U}$. July. *v. v.* Flowers blue, smaller than the first species.

291. HYPOXIS. *Gen. pl.* 565.

- erecta.* 1. *H. pilosa*; scapo 2-3-floro foliis lineari-lanceolatis brevioribus, corollæ laciniis lanceolato-oblongis.—*Willd. sp. pl.* 2. p. 106.

Icon. *Pluk. alm. t. 315. f. 12.* *Bot. mag.* 710.

In pastures and on grassy hills: Canada to Virginia. $\mathcal{U}$. June, July. *v. v.* Flowers yellow: the root is reckoned one of the antidotes against the bite of the rattlesnake.

- graminea.* 2. *H. pilosa*; scapo 4-floro foliis longissimis gramineis brevioribus, corollæ laciniis lineari-lanceolatis.

H. caroliniensis. Mich. fl. amer. 1. p. 118.

In dry sandy fields and woods: New Jersey to Carolina. $\mathcal{U}$. June, July. *v. v.* Leaves very narrow, and double the length of the scape.

- junceæ.* 3. *H. pilosa*; scapo unifloro, foliis filiformibus canaliculatis.—*Smith spicil.* t. 16.

On pine-barrens of South Carolina. $\mathcal{U}$. May—July. *v. v.*

H. sessilis Willd. sp. pl. 2. p. 110. figured by Dillenius t. 220. is only an accidental variety of *H. erecta*, as I frequently have found this species at an early part of the season to flower very near to the ground.

292. CONOSTYLIS. *Brown fl. nov. holland.* 1. p. 300.

- americana.* 1. *C. corollis intus lanatis, scapis corymboso-paniculatis, foliis gramineo-ensiformibus glaucis, filamentis æqualibus.*

Argolasia aurea. Pursh catal.

In boggy soil, on the pine-barrens of New Jersey and Carolina. $\mathcal{U}$. July. *v. v.* Flowers golden-yellow.

Radix fibrosa, repens. Folia radicalia, scapo breviora, irideo-equantia, angusto-ensiformia, acuta, glabra, lævigata, glaucescentia. Scapus erectus, teres, lanato-tomentosus, folio uno alterove brevi instructus.

Cenostylus americana

Corymbus dense multiflorus, lanato-tomentosus. *Flores* extus albo-lanati, intus flavi. *Pedicelli* longitudine florum. *Corolla* 6-fida: laciniis oblongis acutis, 3. interioribus vix angustioribus, superne glabris fuscoluteis, inferne densissime lanatis: pilis plumosis aureis. *Filamenta* 6. filiformia, glabra, corollæ vix breviora. *Antheræ* ovatæ, erectæ, aurantiacæ. *Germen* superum, subrotundum, glabrum. *Stylus* subulatus, 3-partibilis, longitudine filamentorum. *Stigma* simplex.

This singular and beautiful perennial I discovered about the year 1805, and considered it as a species of *Argolasia* of Jussieu or *Lanaria* of Aiton, until I had the opportunity of seeing Mr. Brown's Prodrômus, in which the genus *Conostylis* is the nearest of any genus I know, though it even differs from that genus materially by the germ being almost entirely superior, and not half inferior.

293. ALETRIS. *Gen. pl.* 579. *Mich. fl. amer.* 1. p. 189.

1. *A. floribus pedicellatis oblongo-tubulosis, corollis fructiferis læviusculis farinosis, foliis lato-lanceolatis mucronatis.*—*Mich. fl. amer.* 2. p. 189.

A. farinosa. Willd. sp. pl. 2. p. 183.

Icon. Pluk. amalth. t. 437. *f.* 2. *Bot. mag.* 1418.

In dry gravelly woods, on the side of hills: New England to Carolina. *Æ.* June, July. *v. v.* Flowers white, in a long spike; known by the name of *Star-grass* or *Colic-root*; the last name, from its being considered an excellent remedy in that disease.

2. *A. floribus subsessilibus breviter tubulatis subcampanulatis, corollis fructiferis rugosis scaberrimis, foliis lanceolato-ensiformibus acutis.*—*Mich. fl. amer.* 1. p. 190.

Wurmbea bullata. Willd. hort. berol. t. 8.

In sandy fields and woods: New Jersey to South Carolina. *Æ.* July, Aug. *v. v.* Flowers covered with a mealy substance, as in the first species, but the divisions are tipped with golden-yellow; the leaves are narrower and longer. There is not any doubt of this plant properly belonging to *Hexandria Trigynia*; but the styles are glued together during flowering, and only divide on the ripening of the fruit.

alba.

aurea.

294. AGAVE. *Gen. pl.* 582.*virginica.*

1. *A. acaulis*, herbacea; foliis cartilagineo-serratis, scapo simplicissimo. *Willd. sp. pl.* 2. p. 193.

Icon. *Jacq. ic. rar.* 2. t. 378. *Bot. mag.* 1157.

On the rocky and fertile banks of rivers: Virginia to Carolina. *¶*. July. *v. v.* Flowers greenish-yellow, very fragrant.

295. PHALANGIUM. *Tournef. Juss. gen. pl.* 59.*croceum.*

1. *P. bulbosum*; scapo foliis gramineis multo brevioribus, spica pyramidali, bracteis convoluto-amplexantibus obtusis, seminibus subglobosis lævigatis.—*Mich. fl. amer.* 1. p. 196.

In low grounds of Georgia. *Michaux. ¶. +.* Flowers saffron-coloured; seeds black.

Quamash.

2. *P. bulbosum*; scapo foliis linearibus carinatis longiore, spica racemosa, bracteis linearibus, petalis 5. adscendentibus: infimo deflexo, stigmatibus obtuso.

On the upper part of the Missouri, near the Rocky-mountains. *M. Lewis. ¶. June. v. s. in Herb. Lewis.* Flowers large, pale blue.

Bulbus tunicatus, subrotundus. *Scapus* simplex, nudus, erectus, teres, glaber, pedalis et ultra. *Folia* radicalia, pauca, longe linearia, subtus carinata, glabra, semiunciam lata. *Flores* spicato-racemosi, bracteati. *Bracteæ* marcescentes, solitariae, lineares, membranaceæ. *Pedunculi* solitarii, uniflori, teretes, bracteis breviores. *Corolla* marcescens, infera, hexapetalopartita. *Petala* subæqualia, lineari-lanceolata: quinque adscendentia: sextum deflexum. *Filamenta* subulata, æqualia, petalis breviora, ad basin petalorum inserta. *Germen* trigonum. *Stylus* longitudine corollæ, subclavatus. *Stigma* obtusum. *Capsula* subrotundo-triquetra, 3-locularis: loculis polyspermis. *Semina* oblonga, nigra.

It deviates from the character of *Phalangium* in some respects, particularly in its ascending petals, but not sufficiently to give materials to frame a new genus.

This plant is known among the natives by the name *Quamash*, and the bulbs are carefully collected by them and baked between hot stones, when they assume the appearance of baked pears, and are of an

agreeable sweet taste. They form a great part of their winter stores. Though an agreeable food to Governor Lewis's party, they occasioned bowel complaints if eaten in any quantity.

296. NARTHECIUM. *Smith fl. brit.* 1. p. 368. *Ker in bot. mag.* 1505.

1. *N. racemo* interdum interrupte spicato laxo, bractea una *americanum.*
caulina pedicellum amplexante, altera inferne pedicellari paleaceo-setacea, lana filamentorum brevissima.
Ker l. c.

In boggy fields and woods, on the pine-barrens of New Jersey. *¶*. June, July. *v. v.* Flowers yellow. It approaches very near to *N. Ossifragum*, and is only different in the situation of its bracteas, which nice distinction was very ingeniously observed by Mr. Ker. For a considerable time I considered this plant to be *N. glutinosum* of Michaux; but the close investigation of Mr. Ker on this subject has convinced me of having been in an error. *Vid. Bot. mag.* 1505.

297. ORNITHOGALUM. *Gen. pl.* 566.

1. *O. corymbo* paucifloro, pedunculis bracteis longioribus, *umbellatum.*
filamentis subulatis. *Willd. sp. pl.* 2. p. 116.

Icon. Jacq. austr. 4. t. 343.

In grass-plots and near gardens; probably not indigenous.
¶. May. *v. v.* Flowers white.

298. YUCCA. *Gen. pl.* 580.

1. *Y. acaulis*; foliis lato-lanceolatis integerrimis margine *filamentosa.*
filamentosis, stigmatibus recurvato-patentibus.—
Willd. sp. pl. 2. p. 184.

Icon. Trew ehret. t. 37.

On the shores of Virginia and Carolina, and in the western parts thereof. *¶*. July, Aug. *v. v.* Flowers white, very showy; and the plant is from four to five feet high.

2. *Y. acaulis*; foliis longo-linearibus rigidis margine raro *angustifolia.*
filamentosis, capsulis magnis obovato-cylindraceis.

On the banks of the Missouri. *¶*. July, Aug. *v. s.*
in Herb. Nuttall. From two to three feet high; leaves very narrow; capsules large.

- recurvifolia*. 3. *Y. caulescens*: foliis lineari-lanceolatis viridibus recurvo-deflexis margine raro filamentosis, petalis interioribus latioribus.—*Salisb. in parad. lond.* 31.
On the sandy shores of Georgia. *Leconte*. h. July, Aug. v. v. Flowers greenish-yellow, with a tinge of purple; stem about three feet high: this species has been confounded with the following.
- gloriosa*. 4. *Y. caulescens*, ramosa; foliis lato-lanceolatis plicatis integerrimis, petalis lanceolatis.—*Willd. sp. pl.* 2. p. 183.
Icon. Bot. rep. 473. *Bot. mag.* 1260.
On the sea-shore of Carolina. h. July, Aug. v. v. Flowers white; plant about ten feet high.
- aloifolia*. 5. *Y. caulescens*, ramosa; foliis lineari-lanceolatis callosocrenulatis strictis.—*Willd. sp. pl.* 2. p. 184.
Icon. Dill. elth. 323. f. 416. *Comm. prael. t.* 14.
On the coast of Carolina and Florida. h. Aug. v. v. Flowers white.

299. LILIUM. *Gen. pl.* 558.

- Catesbæi*. 1. *L. foliis sparsis lineari-lanceolatis, caule unifloro, corolla erecta, petalis longe unguiculatis margine undulatis apice reflexis.* *Willd. sp. pl.* 2. p. 86. *Walt. fl. car.* 259.
L. spectabile. *Salisb. icon. rar.* 5. t. 5.
L. carolinianum. *Lam. encycl.* 3. p. 554.
Icon. Catesb. car. 2. t. 58. *Bot. mag.* 259.
In low sandy meadows: Virginia to Carolina. M. June—Aug. v. v. Flower very handsome, scarlet, spotted with yellow and brown; stem about a foot high.
- pudicum*. 2. *L. ? foliis sparsis lineari-lanceolatis, caule unifloro, corolla campanulata cernua, petalis erectis sessilibus spathulato-obovatis obtusis intus planis.*
On the head-waters of the Missouri. *M. Lewis*. M. May. v. s. in *Herb. Lewis*. Flower pale yellow; stem about ten inches high.
This doubtful species is at first sight more related to *Fritillaria*; but the style, which is the length of the petals, with an obtuse stigma, associates it more closely to *Lilium*. The fruit I am unacquainted with; the root is a flat biscuit-shaped bulb.

Vilum pudicum.

3. *L. foliis sparsis lineari-lanceolatis : supremis 4. 5. verticillatis florenque subæquantibus, caule subunifloro subalato-pentagono, pedunculo lanato, corolla erecta turbinato-patente extus floccoso-lanata, laciniis infimis ovali-lanceolatis.* *Ker in bot. mag.* 872.

pensylvanicum.

Icon. *Catesb. car.* 3. t. 8.

On the mountains of Pennsylvania and Virginia. $\mathcal{U}$. July, Aug. *v. v.* Flower scarlet, yellow at the base with dark spots. Resembles *L. bulbiferum* very much.

4. *L. foliis sparsis linearibus brevibus : supremis verticillatis pedunculis brevioribus, floribus 3—5. umbellatis erectis, petalis recurvo-potentibus subæqualibus ovato-oblongis subunguiculatis.*

umbellatum.

L. concolor. Parad. lond. 47?

On the banks of the Missouri. *M. Lewis* and *Nuttall*. $\mathcal{U}$. July. *v. s.* By all appearance the plant found by the above gentlemen, among the Mandan nation on the Missouri, appears to be the same with the one figured in the *Paradisus Londinensis*; the flowers are of an uniform deep scarlet colour, and are highly ornamental.

5. *L. foliis verticillatis lanceolato-linearibus, caule subbifloro, corolla erecta campanulata patente, petalis lanceolatis unguiculatis.*—*Willd. sp. pl.* 2. p. 90.

philadelphicum.

Icon. *Mill. ic. t.* 105. f. 1. *Bot. mag.* 519.

In woods and meadows : Canada to Virginia. $\mathcal{U}$. July, Aug. *v. v.* Flowers large, scarlet, yellow near the bottom, with dark red spots; most generally it is found with only one flower, but sometimes even with three or more.

6. *L. foliis remote verticillatis lanceolatis trinerviis, subtus ad nervos subhirsutis, pedunculis terminalibus elongatis plerumque ternis, corollis cernuis turbinato-campanulatis recurvo-potentibus, laciniis lanceolatis.*—*Willd. sp. pl.* 2. p. 89.

canadense.

Icon. *Catesb. car.* 3. t. 11.

α. Bot. mag. 800.

β. Bot. mag. 858.

flavam.
coccineum.

On mountain meadows : Canada to Virginia. $\mathcal{U}$. July, Aug. *v. v.*

7. *L. foliis plerumque verticillatis cuneato-lanceolatis seu obovalibus enervibus glaberrimis, ramis floriferis crassis*

carolinianum.

ternato-terminalibus, floribus reflexis, corollis revolutis.—*Mich. fl. amer.* 1. p. 197.

L. Martagon. *Walt. fl. car.* 123.

Icon. *Calcsb. car.* 2. t. 56.

In fertile meadow grounds : Lower Virginia and Carolina. $\mathcal{A}$. June, July. *v. v.* Resembles *L. Martagon* very much ; flowers larger and maculated.

superbum.

8. *L. foliis lineari-lanceolatis trinervibus glabris, inferioribus verticillatis intermediis duplo longioribus superioribus sparsis, floribus racemoso-pyramidalis reflexis, corollis revolutis.*—*Willd. sp. pl.* 2. p. 88.

Icon. *Trew chret.* 2. t. 11. *Bot. mag* 936.

In low copses and swamps, on blue clay soil : Canada to Virginia. $\mathcal{A}$. July, Aug. *v. v.* The most stately plant of this family in North America ; the number and elegance of its flowers are astonishing. I have, in favourable situations, seen stems of about seven feet high, with from thirty to fifty flowers, disposed in a graceful manner in form of a chandelier.

300. FRITILLARIA. *Gen. pl.* 559.

lanceolata.

1. *F. caule folioso 1—2-floro, foliis lineari-lanceolatis obtusiusculis : inferioribus verticillatis, petalis lanceolatis.*

Lilium camtschatcense. *Willd. sp. pl.* 2. p. 89.

On the head-waters of the Missouri and Columbia.

M. Lewis. $\mathcal{A}$. July. *v. s.* Flowers dark purple with brown spots.

In the tenth volume of the Linnean Transactions, A. B. Lambert, Esq. in his account of the Pallasian Herbarium, has given an excellent figure of this plant, and suspected it very justly to be a *Fritillaria* : when I examined the Lewisian Herbarium I had no idea of finding it under *Lilium*, and made a drawing and description under the above name, for the Travels of Lewis and Clark.

301. ERYTHRONIUM. *Gen. pl.* 562.

lanceolatum.

1. *E. petalis lanceolatis basi dilatatis obtusiusculis, germine subgloboso, foliis lanceolatis,*

E. Dens canis. *Mich. fl. amer.* 1. p. 198.

In woods, near the roots of old trees, and on the banks of rivulets : Canada to Virginia, and on the Missouri.

℥. May. *v. v.* Flowers yellow : there is a variety with brown spots at the bottom of the flower.

2. *E. petalis laeceolatis subunguiculatis acutis*, germine oblongo, foliis lineari-lanceolatis.

grandiflorum.

On the Kooskoosky. *M. Lewis.* ℥. May, June. *v. s.* Flowers double the size of the preceding, and of a pale yellow colour.

302. UVULARIA. *Gen. pl.* 560. *Mich. fl. amer.* 1. *p.* 198.

1. *U. foliis perfoliatis ellipticis obtusis*, corolla campanulata intus scabrata, antheris cuspidatis.—*Willd. sp. pl.* 2. *p.* 94. *Smith exot. bot.* 1. 95.

perfoliata.

U. perfoliata minor. *Mich. fl. amer.* 1. *p.* 199.

Icon. *Smith l. c. t.* 49.

In shady woods, among rocks, in rich vegetable mould : Canada to Carolina. ℥. May, June. *v. v.* Flowers pale yellow.

2. *U. foliis perfoliatis elliptico-oblongis obtusis basi undulatis*, corolla basi attenuata intus scabrata, antheris cuspidatis. *Smith exot. bot.* 1. *p.* 97. *t.* 50.

flava.

Anonymos pudica. *Walt. fl. car.* 123.

Icon. *Bot. mag.* 955. *Smith l. c.*

In shady woods, in sandy soil : New Jersey to Lower Carolina. ℥. May, June. *v. v.* Flowers larger than No. 1, of a deeper yellow.

3. *U. foliis perfoliatis oblongis acutis*, petalis intus lævibus, antheris obtusiusculis, nectariis subrotundis. *Smith exot. bot.* 1. *p.* 99. *t.* 51.

grandiflora.

U. perfoliata major. *Mich. fl. amer.* 1. *p.* 199.

U. lanceolata. *Willd. sp. pl.* 2. *p.* 94.

Icon. *Corn. canad. t.* 39. *Smith l. c.*

On shady hills, in fertile soil, and among rocks : Canada to Carolina. ℥. June. *v. v.* Flowers larger than the other species, of a beautiful yellow. The *U. lanceolata* of the Hortus Kewensis is the same with Dr. Smith's *U. grandifolia*, according to specimens in the Herbarium of A. B. Lambert, Esq.

4. *U. caule glabro*, foliis sessilibus lanceolato-ovalibus subtus glaucescentibus, corollæ laciniis planis intus lævibus, capsula stipitata.—*Willd. sp. pl.* 2. *p.* 95.

sessilifolia.

Icon. *Smith exot. bot.* 1. *p.* 101. *t.* 52. *Bot. mag.* 1402.

In shady woods : Canada to Carolina. ℥. May, June. *v. v.* Flowers pale yellow.

- puberula*. 5. *U. caule puberulo, foliis subamplexicaulibus ovalibus basi rotundatis utrinque concoloribus, corollæ laciniis acutis intus lævibus, capsula sessili.*—*Mich. fl. amer.* 1. p. 199.

On the mountains of Carolina. *Michaux*. *U.* +. Resembles the foregoing species; flowers larger.

303. *STREPTOPUS*. *Mich. fl. amer.* 1. p. 200.

- distortus*. 1. *S. glaber; foliis amplexicaulibus, pedicellis solitariis medio distorto-geniculatis.* *Mich. fl. amer.* 1. p. 200.
Uvularia amplexifolia. Willd. sp. pl. 2. p. 93.
Icon. Pl. rar. hung. t. 167.

In shady woods: Canada to Pennsylvania on high mountains. *U.* May, June. *v. v.* Flowers greenish-yellow, the size of *Convallaria majalis*.

- roseus*. 2. *S. glaber lucidus; foliis amplexicaulibus serrulato-ciliolatis, antheris brevibus bicornibus.* *Mich. fl. amer.* 1. p. 201.

Icon. Mich. l. c. t. 18.

On the high mountains of Carolina, Pennsylvania, and in Canada. *U.* May—July. *v. v.* Flowers rose-coloured.

- lanuginosus*. 3. *S. subcandicanti-lanuginosus; foliis sessilibus basi subcordatis acuminatis, pedicellis in brevissimo stipite geminatis.* *Mich. fl. amer.* 1. p. 201.

On the high mountains: Pennsylvania to Carolina. *U.* June. *v. v.* Flowers large, yellowish-green; berries red.

304. *CONVALLARIA*. *Gen. pl.* 575. *Desfont. in annal. mus. hist. nat.* 9. p. 46.

- majalis*. 1. *C. scapo nudo lævi, foliis ovatis.* *Willd. sp. pl.* 2. p. 160.

Icon. Fl. dan. 854.

On the highest mountains of Virginia and Carolina. *U.* May. *v. v.* Flowers white, fragrant.

305. *SMILACINA*. *Desfont. in annal. mus. hist. nat.* 9. p. 51.

- umbellata*. 1. *S. foliis radicalibus oblongo-ovalibus margine et carina ciliatis, scapo pubescente, umbella terminali, pedicellis bracteatis.*—*Desfont. l. c.* 53.

Convallaria umbellata. Mich. fl. amer. 1. p. 202.

S. borealis. Ker in bot. mag.

Icon. Desfont. l. c. t. 8. Bot. mag. 1155.

On the Allegany mountains: Pennsylvania to Carolina;
rare. 4. May, June. v. v. Flowers white, fragrant.

2. *S. subcaulescens*; foliis elliptico-obovatis margine ciliatis, scapo pubescente, umbelia corymbosa interdum prolifera, pedicellis nudis nutantibus.—Bot. mag. 1403.

Dracæna borealis. Willd. sp. pl. 2. p. 158.

Icon. Ait. kew. 1. t. 5 Bot. mag. 1403. Bot. repos. 205.

On the Allegany mountains, in bogs, and in Canada and New England. 4. June, July. v. v. Flowers large, greenish-yellow: fruit beautiful amethystine blue.

3. *S. caule bifolio*, foliis cordato-oblongis subsessilibus utrinque glaberrimis, racemo simplici terminali, floribus tetrandris.

Convallaria bifolia. Mich. fl. amer. 1. p. 201.

Majanthemum canadense. Desfont. l. c. p. 54.

- β. *S. foliis ovatis basi vix cordatis.*

- γ. *S. caule trifoliato*, foliis lato-cordatis.

Icon. Fluk. aln. t. 434. f. 4.

In shady woods, round the roots of old trees and in the bogs on high mountains. 4. May. v. v. Flowers small, white.

4. *S. caule alterne trifoliato* pubescente, foliis oblongo-lanceolatis, racemo terminali laxo.—Desfont. l. c. p. 52.

Convallaria trifolia. Willd. sp. pl. 2. p. 103.

Icon. Gmel. fl. sibir. 1. t. 6.

On the highest Allegany mountains, in deep sphagnous places: Pennsylvania, New York, and in Canada. 4. June, July. v. v. Flowers small, white.

5. *S. caule alterne folioso*, foliis amplexicaulibus lanceolatis seu ovali-lanceolatis, racemo simplici terminali.—

Desfont. l. c. p. 52.

Convallaria stellata. Willd. sp. pl. 2. p. 163.

Icon. Corn. canad. t. 33. Moris. hist. 3. s. 15. t. 4. f. 7.

Bot. mag. 1043.

In Canada, and along the tract of mountains on river banks as far south as Virginia. 4. May, June. v. v. About a foot high; flowers in a close spike, white.

6. *S. caule alterne folioso arcuato*, foliis sessilibus ovatis ciliatis, panicula terminali conferta.—Desfont. l. c.

p. 53.

Icon. Desfont. l. c. t. 9.

borealis.

canadensis.

ovalis.
trifolia.

trifolia.

stellata.

ciliata.

In Virginia and Canada. *Desfontaines*. *Ų*. +. Flowers very small, white.

racemosa.

7. *S. caule alterne folioso, foliis sessilibus oblongo-ovalibus acuminatis nervosis pubescentibus, floribus terminalibus racemoso-paniculatis.*—*Desfont. l. c. p. 51.*

Icon. *Corn. canad. t. 37. Pluk. alm. t. 311. f. 2. Bot. mag. 899.*

In mountain woods: Canada to Carolina; common. *Ų*. June, July. *v. v.* Flowers small, yellowish.

306. POLYGONATUM. *Desfont. in mus. hist. nat. 9. p. 48.*

angustifolium.

1. *P. caule tereti, foliis alternis sessilibus elliptico-lanceolatis sensim acutis subtrinervibus glabris, pedunculis axillaribus elongatis subbifloris.*

Convallaria biflora. Walt. fl. car. 122.

In rocky situations: Pennsylvania to Virginia. *Ų*. May, June. *v. v.* Flowers yellowish-white, with green tips, as most of this genus.

canaliculatum.

2. *P. caule canaliculato, foliis alternis amplexicaulibus oblongis margine pubescentibus, pedunculis axillaribus bifloris.*

Convallaria canaliculata. Willd. hort. berol. 45.

In shady woods: Pennsylvania to Virginia. *Ų*. June. *v. v.*

pubescens.

3. *P. caule teretiusculo sulco exarato, foliis alternis amplexicaulibus ovatis subtus pubescentibus, pedunculis axillaribus subbifloris.*

Convallaria pubescens. Willd. hort. berol. 45. cum icone.

On rocks, near water: New England to Carolina. *Ų*. May, June. *v. v.*

hirtum.

4. *P. caule angulato hispido, foliis alternis subamplexicaulibus ovatis obtuse acuminatis, pedunculis axillaribus trifloris.*

Convallaria hirta. Lam. encycl. 4. p. 369.

In North America. *Bosc. Ų*. +.

multiflorum.

5. *P. caule tereti, foliis alternis amplexicaulibus oblongo-ovalibus, pedunculis axillaribus multifloris.*—*Desfont. l. c. p. 50.*

Convallaria multiflora. Willd. sp. pl. 2. p. 162.

Icon. *Fl. dan. 152. Abbot 77. Engl. bot. 279.*

In dry hilly woods: Canada to Carolina. *Ų*. June, July. *v. v.*

6. *P. caule angulato, foliis sessilibus ovatis acuminatis, pedunculis uni- aut multifloris.* Desfont. l. c. p. 50. *latifolium.*
Convallaria latifolia. Willd. sp. pl. 2. p. 162.
 Icon. Jacq. austr. 3. t. 232.

On the sandy and gravelly banks of rivers, in shady wet situations: Pennsylvania and Virginia. 2. June, July. v. v. The tallest of all the species, sometimes four feet high.

307. ASPARAGUS. Gen. pl. 573.

1. *A. caule herbaceo inermi suberecto tereti, foliis setaceis mollibus, stipulis subsoletariis.* Smith fl. brit. 1. p. 369. *officinalis.*
Willd. sp. pl. 2. p. 150.
 Icon. Fl. dan. 803. Engl. bot. 339.
 Common *Asparagus* is frequently found in an apparently wild state, but has been introduced from Europe.

308. GRONTIUM. Gen. pl. 587.

1. *O. foliis lanceolato-ovatis, scapo cylindrico spicato.* — *aquaticum.*
Willd. sp. pl. 2. p. 199.
 Icon. Amœn. acad. 3. t. 1. f. 3.
 In rivulets and low stagnant waters: Canada to Florida. 2. April, May. v. v. Yellow flowers in a close cylindric spike, of a most singular smell. I observed a variety with almost linear leaves, in the Salt marshes near New York.

309. ACORUS. Gen. pl. 586.

1. *A. scapo mucrone longissimo foliaceo.* Willd. sp. pl. 2. p. 199. *Calamus.*
 Icon. Abbot 77. Engl. bot. 356.
 In overflowed places and old ditches; frequent: Canada to Carolina. Has the appearance of a flag, and called *Sweet-flag*, from the aromatic smell and taste of its roots.

310. JUNCUS. Gen. pl. 590.

* *Culmis nudis.*

1. *J. culmo nudo tereti, panicula terminali, involucro diphylo spinoso, capsulis subrotundis mucronatis.* Smith fl. brit. 1. p. 374. Willd. sp. pl. 2. p. 204. *acutus.*
J. maritimus. Lam. encycl. 3. p. 253.

Icon. *Engl. bot.* 1614.

On the sandy sea-coast : New Jersey, &c. $\mathcal{U}$. July. *v. v.*

conglomeratus.

2. *J. culmo nudo stricto, panicula laterali conglobata, capsulis retusis, floribus triandris. Smith fl. brit. 1. p. 376. Willd. sp. pl. 2. p. 205.*

Icon. *Host. gram. 3. t. 82. Leers. fl. herb. t. 13. f. 1.*

In wet pastures, frequent. $\mathcal{U}$. June, July. *v. v.*

effusus.

3. *J. culmo nudo stricto, panicula laterali effusa supradecomposita, capsulis obtusis. Smith fl. brit. 1. p. 376. Willd. sp. pl. 2. p. 205.*

Icon. *Host. gram. 3. t. 83.*

Frequent in low grounds, on road sides, &c. $\mathcal{U}$. June, July. *v. v.*

filiformis.

4. *J. culmo nudo filiformi nutante, panicula laterali bracteata subsimplici, capsulis subrotundis. Smith fl. brit. 1. p. 377. Willd. sp. pl. 2. p. 207.*

Icon. *Host. gram. 3. t. 84. Pluk. phyt. t. 40. f. 8.*

In boggy mountain meadows ; frequent. $\mathcal{U}$. July, Aug. *v. v.*

bicornis.

5. *J. culmo erecto nudo, foliis subsetaceis canaliculato-planis, involucri setaceo diphylo erecto paniculam superante, floribus distinctis, calyce lineari-lanceolato acutissimo. — Mich. fl. amer. 1. p. 191.*

J. tenuis. Rostk. junc. 21. t. 1. f. 3. Moris. hist. 3. s. 8. t. 9. f. 15.

In sandy wet fields, near ponds : Carolina and Georgia. $\mathcal{U}$. July. *v. v.*

setaceus.

6. *J. culmo nudo filiformi nutante, umbella laterali composita pauciflora, pedunculis multifloris, calyce subulato. Rostk. junc. 13. t. 1. f. 2.*

In low grounds : Canada to Virginia. $\mathcal{U}$. July. *v. v.*

marginatus.

7. *J. foliis planis glabris, corymbo terminali simplici proliifero, capitulis sub-10-floris, calyce capsulam obtusam æquante. Rostk. junc. 30. t. 2. f. 3.*

On dry shady hills : Pennsylvania. $\mathcal{U}$. June. *v. v.*

nodosus.

8. *J. foliis nodoso-articulatis teretibus, corymbo simplici, capitulis globosis, capsulis acuminatis calyce longioribus. Rostk. junc. t. 2. f. 2.*

J. scirpoides. Lam. encycl. 3. p. 267.

Icon. *Pluk. alm. t. 417. f. 3.*

In inundated fields and ditches : Canada to Virginia. $\mathcal{U}$. July, Aug. *v. v.*

** *Culmis foliosis.*

9. *J. culmo erecto oligophyllo, foliis nodoso-articulatis, polycephalus.*
capitulis globosis multifloris subpaniculatis, calycibus
linearibus triandris.—*Mich. fl. amer.* 1. p. 192.
Icon. *Pluk. alm. t. 92. f. 9.*
- α. *J. major, foliis crassioribus compressis.* crassifolius.
β. *J. foliis subfiliformibus.* tenuifolius.
In inundated places: Pennsylvania to Carolina. 4. June,
July. v. v.
10. *J. culmo erecto, foliis nodoso-articulatis teretibus, pani-* *sylvaticus.*
cula supradecomposita, foliolis calycinis aristatis inte-
rioribus longioribus. *Willd. sp. pl.* 2. p. 211.
J. acutiflorus. Hoffm. germ. 125.
Icon. *Host. gram.* 3. t. 86.
In inundated woods and on river sides: Pennsylvania to
Virginia. 4. July. v. v.
11. *J. culmo decumbente, foliis setaceis, floribus glome-* *verticillatus.*
ratis verticillatis glomerulis foliosis. *Willd. sp. pl.* 2.
p. 212.
J. uliginosus. Roth fl. germ. 1. p. 155.
J. fluitans. Lam. encycl. 3. p. 26.
Icon. *Fl. dan.* 817. *Host. gram.* 3. t. 88.
In rivulets and ponds: Canada, New York, &c. 4.
July, Aug. v. v.
12. *J. culmo folioso erecto, foliis subnodoso-articulatis, pa-* *acuminatus.*
nicula terminali composita, glomerulis subtrifloris pe-
dunculatis sessilibusque, calycibus gracilibus acumina-
tis 3-andris. *Mich. fl. amer.* 1. p. 192.
In stagnant waters and on river banks: Pennsylvania to
Carolina, 4. July, Aug. v. v. Resembles *J. ar-*
ticulatus very much.
13. *J. radice bulbosa, culmo folioso erecto compresso, foliis* *aristatus.*
angustis subcanaliculatis, panicula composita, glome-
rulis 3-floris, calycibus 3-andris bracteisque aristatis.
—*Mich. fl. amer.* 1. p. 192.
In low grounds of Georgia and Carolina. 4. July. v. s.
Resembles the following species.
14. *J. culmo subcompresso indiviso, foliis linearibus canali-* *bulbosus.*
culatis, corymbo terminali, calycibus obtusis capsula
subrotunda obtusa brevioribus. *Willd. sp. pl.* 2.
p. 213.
J. compressus. Jacq. vind. 235.
Icon. *Host. gram.* 3. t. 89. *Fl. dan.* 431.

- On dry barren soil, on road sides ; frequent. *Ÿ*. June, July. *v. v.*
- terrestris*. 15. *J. culmo folioso simplici teretiusculo, foliis canaliculatis, corymbo terminali dichotomo bracteis brevioribus, capsula oblonga obtusa calyce brevioribus. Rostk. junc. 24. t. 1. f. 3. Willd. sp. pl. 2. p. 214?*
In Georgia and Carolina. *Ÿ*. +.
- lufonius*. 16. *J. culmo folioso dichotomo, foliis angulatis subsetaceis, floribus oblongis solitariis sessilibus.—Willd. sp. pl. 2. p. 214.*
Icon. *Fl. dan.* 1098. *Host. gram.* 3. t. 90. *Engl. bot.* 802.
In overflowed fields, common. July, Aug. *v. v.*
- campestris*. 17. *J. foliis planis pilosis, spicis pedunculatis ovatis subcernuis, intermedia sessili, calycinis foliolis mucronatis capsula obtusa longioribus. Willd. sp. pl. 2. p. 221.*
Icon. *Engl. bot.* 672.
On dry sunny hills : Pennsylvania to Carolina. *Ÿ*. April, May. *v. v.*
- melanocarpus*. 18. *J. culmo folioso, foliis sublanceolatis glabris, panicula capillari laxa, floribus pedicellatis.—Mich. fl. amer. 1. p. 190.*
Luzula melanocarpa. Desvoux in journal de botanique 1. p. 142. t. 5. f. 2.
In the western part of Canada. *Michaux.* +. Seeds black.
- repens*. 19. *J. culmis repentibus foliosis, foliis planis angustis, capitulis paucis sessilibus pedunculatisque paucifloris, calycibus subulatis 3-andris.—Mich. fl. amer. 2. p. 191.*
Cephaloxis flabellata. Desvoux in journal de botanique 1. p. 324. t. 11. f. 2.
On sandy hills in Carolina and Georgia. *Ÿ*. June. *v. s.*

311. PEPLIS. *Gen. pl.* 605.

- americana*. 1. *P. floribus axillaribus solitariis, foliis crassis spatulato-obovatis, floribus apetalis.*
Inundated during its flowering time, in slow-flowing places of rivers, in Pennsylvania ; the flowers so diminutive that to examine them it requires a strong microscope.

II. DIGYNIA.

312. NECTRIS. *Gen. pl.* 610.

1. *N. foliis demersis oppositis capillaceo-multifidis : emersis alternis orbiculatis peltatis integerrimis.* *peltata.*
N. aquatica. Willd. sp. pl. 2. p. 248.
Cabomba aquatica. Aubl. gui. 1. p. 321. t. 124.
 In the streams of Carolina and Georgia. ♀. July, Aug.
v. s.
2. *N. foliis omnibus alternis demersis ternatis ; emersis quinato-pinnatis.* *pinnata.*
Floerkea proserpinacoides. Mullb. mss.
 In ditches and slow-flowing rivers : Pennsylvania and Virginia. ♀. Aug. *v. v.* Flowers greenish-yellow in both species, on long axillary solitary petioles. The character of the last species deviates a little from Aublet's ; but as I never had an opportunity of seeing his plant in a living state, I consider the difference so trifling that they will be better to remain united.

III. TRIGYNIA.

313. SABAL. *Adanson. Pers. syn. 1. p. 399.*

1. *Sabal. Pers. l. c.* *Adansonii.*
Raphis acaulis. Willd. sp. pl. 4. p. 1093.
Chamærops acaulis. Mich. fl. amer. 1. p. 207.
Corypha minor. Jacq. vind. 3. t. 8.
Corypha pumila. Walt. fl. car. 119.
Icon. Bot. mag. 1434. Guersent. obs. in bullet. de la soc. philomat. no. 87.
 Along the sea-coast of Carolina and Georgia. ♀. Aug.
v. v. A species of palm of but little beauty or use.

314. CHAMÆROPS. *Gen. pl.* 1688.

1. *C. candice repente, stipitibus aculeato-serrulatis, frondibus palmatis.—Willd. sp. pl. 4. p. 1155. Mich. fl. amer. 1. p. 206.* *serrulata.*
 On the coast of Georgia and Florida. ♀ : *v. v. s. fl.*

Hystrix.

2. *C. caudice repente*, stipitibus aculeis longissimis intermixtis, frondibus palmatis.

Near the town of Savannah, Georgia. *h. v. v. s. fl.*
This singular palm grows in company with others, and distinguishes itself by its long aculei resembling porcupine quills, and often growing to the length of more than fifteen inches.

Palmetto.

3. *C. caudice arboreo*, stipitibus inermibus, spathis duplicatis, frondibus palmatis. *Willd. sp. pl.* 4. p. 1155.

Corypha Palmetto. *Walt. fl. car.* 119.

On the sea-coast of Carolina and Florida. *h. v. v. s. fl.*
A fine and useful plant; the wood used for forming almost everlasting piles for building wharfs, and the leaves can be manufactured into light and very durable hats.

315. *NOLINA. Mich. fl. amer.* 1. p. 207.

georgiana.

1. *N. foliis angustissimis longis aride-gramineis*, scapo laxo-ramoso foliis subulatis sparsim vestito, floribus racemosis, pedicellis aggregatis.—*Mich. fl. amer.* 1. p. 208.

Phalangium virgatum. Lam. encycl. 5. p. 246.

In barren sandy woods: Georgia. *Michaux* and *Fraser*.
¶ July. *v. s. in Herb. Enslen.* Root a tunicated bulb; stem two feet and more high; flowers white and small.

316. *CALOCHORTUS. Pursh in linn. trans.* v. 11. p. . . .

elegans.

1. *C. scapo subtrifloro folio unico brevior*e, petalis interioribus lanatis.

On the head-waters of the Kooskoosky. *M. Lewis*. ¶
May. *v. s. in Herb. Lewis.* Flowers very elegant, white; the three inside petals are covered with a long down, and have a purple smooth spot on their base. The roots are eaten by the natives.

Bulbus solidus, subglobosus. Folium unicum, radicale, longe-gramineum, glabriusculum, plicato-nervosum, scapo longiore. Scapus simplex, teres, glaber, bi-aut triflorus. Bractææ tot quod pedicelli, lineari-lanceolatae. Pedicelli filiformes, bracteis vix longiores. Flores nutantes, magnitudine Hypoxidis erecti.

317. *MELANTHIUM. Gen. pl.* 618.

virginicum.

1. *M. elatum*; panicula pyramidata, petalis ovalibus sub-hastatis planis bimaculatis, floribus plerumque her-

maphroditis.—*Willd. sp. pl.* 2. p. 266. *Lam. encycl.* 4. p. 25.

Helonias virginica. *Bot. mag.* 985.

In low grounds, among luxuriant herbage: New York to Carolina. $\mathcal{U}$. June, July. *v. v.* Flowers greenish-white at first, and turn to a dark brown after flowering for some time.

2. *M. panicula inferne mascula, superne feminea racemosa, petalis oblongis planis brevi-unguiculatis bimaculatis, stylis germine duplo brevioribus*.—*Walt. fl. car.* 125.

monoicum.

M. polygamum. *Lam. encycl.* 4. p. 25.

On the mountains of Virginia and Carolina. $\mathcal{U}$. July. *v. v.* Flowers smaller, and not so apt to change colour.

3. *M. panicula superne racemosa feminea, petalis subrotundis unguiculatis plicato-undulatis vix maculatis, extus hirsutis*.—*Walt. fl. car.* 125.

hybridum.

M. latifolium. *Lam. encycl.* 4. p. 25.

M. racemosum. *Mich. fl. amer.* 1. p. 251.

On the side of hills, in moist fertile soil: Virginia and Carolina. $\mathcal{U}$. June, July. *v. v.* Flowers small, pale white, and do not change.

318. ZIGADENUS. *Mich. fl. amer.* 1. p. 213.

1. *Z. scapo folioso, bracteis ovatis acuminatis, petalis acuminatis*. *glaberrimus.*

Icon. Mich. fl. amer. 1. p. 214. t. 22.

In low meadows: Virginia and Lower Carolina. $\mathcal{U}$. June, July. *v. v.* Flowers white, the size of *Veratrum album*; leaves long, recurved and channelled.

2. *Z. scapo subnudo, bracteis linearibus, petalis acutis*. *elegans.*

On the waters of Cokahlaishkit river, near the Rocky-mountains. *M. Lewis*. $\mathcal{U}$. July. *v. s. in Herb. Lewis*. Flowers white.

Folia radicalia, erecta, longissime-linearia, glabra, lineato-nervosa, plana, scapo breviora. *Scapus* teres, simplex, uno alterove folio brevi instructus, subbipedalis. *Racemus* multiflorus, interdum basi ramosus. *Bracteæ* lineares, nervosæ, membranaceæ, longitudine pedicellorum. *Flores* albidæ, magnitudine *Melanthi virginici*. *Petalu* ovata, acuta, subunguiculata, basi glandulis 2. cinnabarinis notata. *Filamenta* corollæ breviora. *Stigmata* 3, reflexa.

319. VERATRUM. *Gen. pl.* 1564.*viride.*

1. *V. racemis paniculatis*, bracteis ramorum oblongo-lanceolatis, partialibus pedunculo subpubescente longioribus, foliis lato-ovatis plicatis.—*Willd. sp. pl.* 4. p. 896.

V. album. *Mich. fl. amer.* 2. p. 249.

In swamps and on mountain bogs: Canada to Carolina. $\mathcal{U}$. July. *v. v.* A stately plant, from three to six feet high; flowers greenish-yellow.

parviflorum.

2. *V. racemis paniculatis*, ramis filiformibus, floribus pedicellatis stellatis, petalis ovali-lanceolatis utrinque acutis ungue staminiferis, foliis ovalibus lanceolatisve planis glabris.—*Mich. fl. amer.* 2. p. 250.

Melanthium bracteolare. *Lam. encycl.* 4. p. 25.

On high mountains of Carolina. $\mathcal{U}$. July. *v. v.* *et v. s. in Herb. Lyon.* Flowers small, green.

angustifolium.

3. *V. altum*, dioicum; panicula simplici, petalis linearibus, foliis longissimis linearibus carinatis.

On high mountains of Virginia and Carolina. $\mathcal{U}$. June. *v. v.* Flowers greenish-yellow.

320. HELONIAS. *Gen. pl.* 622. *Mich. fl. amer.* 1. p. 211.*latifolia.*

1. *H. scapo subaphyllo*, spica ovata conferta, bracteis lineari-lanceolatis, foliis lanceolatis mucronatis nervosis.—*Mich. fl. amer.* 1. p. 212.

H. bullata. *Willd. sp. pl.* 2. p. 273.

Icon *Bot. mag.* 747. *Bot. rep.* 352. *Pluk. alm. t.* 174. *f.* 5.

In shady swamps on sandy soil: New Jersey to Virginia.

$\mathcal{U}$. May. *v. v.* Flowers purple; anthers blue.

erythrosperma.

2. *H. scapo folioso*, racemo oblongo, bracteis brevibus oblongis, foliis glabris lanceolato-linearibus, seminibus ovatis legumine carnosio rubentibus.—*Mich. fl. amer.* 1. p. 212.

H. læta. *Bot. mag.* 803.

Melanthium lætum. *Willd. sp. pl.* 2. p. 267.

Melanthium phalangioides. *Lam. encycl.* 4. p. 28.

Melanthium Muscætoxicum. *Walt. fl. car.* 125.

Anthericum subtrigynum. *Jacq. ic. rar.* 2. t. 419.

In shady moist situations on river banks, and on high mountains: Pennsylvania to Carolina. $\mathcal{U}$. June, July.

v. v. Root a kind of bulb; flowers first white, then changing to green; anthers white; seeds covered with a red substance.

angustifolia.

3. *H. scapo inferne folioso*, racemo oblongo laxo, bracteis brevibus, foliis longissimis angustissimisque, capsulis

Melonius tenuis.

oblongis, seminibus angusto-linearibus.—*Mich. fl. amer.* 1. p. 212.

In shady wet woods of Carolina and Georgia. 24. July. v. s.

4. *H. scapo folioso, racemo oblongo conferto, bracteis seta- asphodeloides, ceis, filamentis basi latioribus corollam æquantibus, foliis subulato-setaceis.*—*Willd. sp. pl.* 2. p. 275.

Icon. *Bot. mag.* 748. *Pluk. mant. t.* 342. f. 3.

On the sandy plains of New Jersey and Carolina. 24. May, June. v. v. Flowers white, small; root a kind of bulb: the leaves form large tufts resembling those of some *Carices*.

5. *H. scapo folioso, racemo specioso laxo, bracteis membranaceis, petalis ellipticis, filamentis filiformibus corollam superantibus, foliis subulato-setaceis longissimis.*

tenax.

On high lands near the Rocky-mountains. *M. Lewis.* 24. June. v. s. Flowers white; anthers yellow. It approaches near to the foregoing species, but its flowers are three times larger, and probably an essential distinction may lie in the seed-vessel, which I have not seen. This plant is very useful to the natives: out of its very tenacious leaves they weave thier water-tight baskets, which they use for cooking their victuals in.

6. *H. scapo folioso, racemo spicato nutante, pedicellis brevissimis subbracteatis, filamentis corolla longioribus, petalis linearibus, foliis oblongo-lanceolatis.*

dioica.

H. lutea. *Bot. mag.* 1062.

H. pumila. *Jacq. ic. rar.* 2. t. 453.

Veratrum luteum. *Willd. sp. pl.* 4. p. 897.

Melanthium dioicum. *Walt. fl. car.* 126.

Melanthium densum. *Lam. encycl.* 4. p. 26.

In dry shady and hilly situations: Pennsylvania to Georgia. 24. July. v. v. Root bulbous, known by the name of *Star-wort*, and considered a remedy in colic. Flower white, male and female on different plants, which is a singularity in this family of plants.

Jacquin's *H. pumila* is without doubt an unexpanded spike of a male of this species: the appearance of a germen inferum is occasioned by the male flower being divested of its petals; and no female fructification appearing, the small pedicel was considered to be the rudiments of a germen.

dubia.

7. H. ? scapo nudo, spica gracili, floribus sessilibus, foliis longissimis angustissimisque. — *Mich. fl. amer.* 1. p. 213.

On the sandy fields of Georgia and Florida. *Michaux.*
 ♀. +. Scape nearly three feet high ; flowers small.

321. MEDEOLA. *Gen. pl.* 619.*virginica.*

1. M. foliis in medio caule verticillatis, summitate ternis, ovali-lanceolatis, pedicellis aggregatis terminalibus. — *Willd. sp. pl.* 2. p. 270.

Icon. *Bot. mag.* 1316. *Pluk. alm. t.* 328. f. 4.

In fertile shady woods, near rivulets : Canada to Georgia.

♂. April, May. *v. v.* Flowers yellowish-green ; anthers brown. This plant is known by the name *Indian Cucumber* : the roots have a strong resemblance in taste and flavour to cucumbers, and are eaten by the natives.

322. TRILLIUM. *Gen. pl.* 620.*sessile.*

1. T. flore sessili erecto, petalis lanceolatis erectis calyce duplo longioribus, foliis sessilibus lato-ovalibus acutis. — *Willd. sp. pl.* 2. p. 272.

Icon. *Bot. mag.* 40. *Catesb. car.* 1. t. 50. *Pluk. alm. t.* 111. f. 6.

On the side of fertile hills, in shady and rocky grounds : Pennsylvania to Carolina. ♀. April, May. *v. v.* Flower dark chocolate brown ; berry purple. I have seen a specimen with yellow flowers, brought from the Cherokee nation, which probably may be a distinct species.

petiolatum.

2. T. flore sessili erecto, petalis lineari-lanceolatis erectis calyce paulo longioribus, foliis longissime petiolatis ovali-lanceolatis acutis.

On the waters of the Kooskoosky. *M. Lewis.* ♀. June. *v. s.* This singular species, whose flowers resemble those of the first species, has leaves very much like *Plantago major*.

pictum.

3. T. pedunculo erectiusculo, petalis ovali-lanceolatis acutis recurvatis calyce angusto subduplo longioribus, foliis ovatis acuminatis basi rotundatis abrupte petiolatis.

T. erythrocarpum. *Mich. fl. amer.* 1. p. 216.

T. undulatum. *Willd. hort. ber.* 1. p. 55.

In sphagnum bogs, on the high mountains of Pennsylva-

nia, Carolina, and Canada. 4. May, June. *v. v.* Flowers white, with purple veins at the bottom; berry scarlet.

4. T. pedunculo erecto, petalis oblongis acutis patentibus calyce lineari paulo longioribus, foliis ovatis sensim acutis arcte sessilibus. *ovatum.*

On the rapids of Columbia river. *M. Lewis.* 4. April. *v. s.* Flowers pale purple.

5. T. pedunculo erecto, petalis calyce vix longioribus, foliis ovali-oblongis obtusis sessilibus.—*Mich. fl. amer.* 1. p. 215 *pumilum.*

In the pine-woods of Lower Carolina. *Michaux.* 4. May. *v. s.* Flowers deep flesh-colour.

6. T. pedunculo recurvato, petalis lanceolatis acuminatis planis reflexis longitudine et latitudine calycis, foliis dilatato-rhomboides abrupte acuminatis brevissime petiolatis.—*Willd. sp. pl.* 2. p. 271. *cernuum.*

Icon. *Bot. mag.* 934. *Smith specil.* 4.

In shady rocky situations: Pennsylvania to Carolina; particularly on the banks of Schuylkill near Philadelphia. 4. May. *v. v.* Petals white; berries purple. This may be called the largest of the genus, as I have often seen it near two feet high, with leaves measuring nine inches in diameter. Catesby's figure of this species is, according to Dr. Smith's observation, so erroneously represented that it would only create confusion to quote it here.

7. T. pedunculo inclinato, flore nutante, petalis ovatis acuminatis planis patentibus calyce vix longioribus multo latioribus, foliis lato-rhomboides acuminatis sessilibus.—*Willd. sp. pl.* 2 p. 271. *erectum.*

- α.* T. flore majore, petalis atropurpureis.

T. rhomboideum *α.* *Mich. fl. amer.* 1. p. 215.

T. fœtidum. *Parad. lond.* 35.

Icon. *Bot. mag.* 470.

- β.* T. flore minore, petalis albis, germine rubro. *album.*

T. erectum *β.* *Bot. mag.* 1027.

On the mountains, in boggy soil: Pennsylvania to Carolina. 4. May. *v. v.* Flowers either dark purple or white, changing to red with a red germ; berries almost black.

8. T. pedunculo erecto, petalis obovatis obtusiusculis planis patentibus calyce vix longioribus et latioribus, foliis ovato-rhomboides acuminatis arcte sessilibus. *obovatum.*

T. camtschaticum. *Pallas in herb. Lambert*.

In Canada near Montreal. *Ź. v. s.* Flowers dark rose-coloured, probably white when first opening. The specimens in the herbarium of A. B. Lambert, Esq. agree in every respect with those from Canada.

pendulum.

9. *T. pedunculo inclinato, flore pendulo, petalis ovatis brevi-acuminatis planis patentibus calycem ovatum acuminatum subæquantibus, foliis subrotundo-rhomboideis acuminatis subsessilibus.*—*Willd. hort. berol. 1. t. 35.*

On the mountains of Pennsylvania. *Ź.* April, May. *v. v.* Petals of a dirty white, with netted veins.

- grandiflorum*. 10. *T. pedunculo inclinato, flore subcernuo petalis spathulato-lanceolatis basi erectis, limbo patentibus calyce multo majoribus, foliis late rhombo-ovatis.*—*Parad. lond. t. 1. Bot. mag. 835.*

T. rhomboideum γ. grandiflorum. Mich. fl. amer. 1. p. 216.

On the mountains and rocky banks of rivers: Virginia and Carolina. *Ź.* May. *v. v.* Flowers large, white; berries dark purple. The roots of the whole genus are considered as possessing strong medicinal powers.

323. TOFIELDIA. *Huds. fl. angl. 157.*

Narthecium. Juss. Mich. fl. amer. 1. p. 209.

pusilla.

1. *T. tota glabra, foliis brevissimis, scapo filiformi, spica pauciflora conglobata, calyculo rachi adnato, capsula globosa.*—*Mich. fl. amer. 1. p. 209.*

In bogs on the mountains, near lakes, and particularly Lake Mistassins. — *Ź.* June, July. *v. v.* Flowers greenish-white.

pubescens.

2. *T. scapo, rachi pedicellisque pubescenti-asperis, spica oblonga interrupta, capsula subglobosa vix calycem superante.*—*Mich. fl. amer. 1. p. 209.*

Melanthium racemosum. Walt. fl. car. 126.

Anthericum calyculatum. Gronov. nec Linn.

In swamps and sphagnum woods: Virginia and Carolina. *Ź.* July. *v. v.* Flowers white; anthers yellow.

glutinosa.

3. *T. scapo pedicellisque glutinoso-scabro, spica fasciculis paucis alternantibus, capsula ovoidea calyce duplo longiore.*—*Mich. fl. amer. 1. p. 210.*

From Quebec to Lake Mistassins. *Michaux. Ź. +.* It has the appearance of *Anthericum Ossifragum*, according to Michaux's observation; and as I have never

seen any other plant approaching to it than *Narthe-cium americanum*, p. 227, I was induced to take them as synonymous; but after investigation,—vid. *Bot. mag.* 1505,—a specimen in the Banksian Herbarium seems to apply better to Michaux's plant, if his short definition of the species is sufficient to decide on the subject.

324. TRIGLOCHIN. *Gen. pl.* 616.

1. *T. floribus* 6-andris, capsulis brevibus ovatis sulcatis 6-locularibus.—*Willd. sp. pl.* 2. p. 205. *maritimum.*
Icon. *Fl. dan.* 306. *Engl. bot.* 255.
On the inundated sea-coast of Canada and New England.
♂. July. *v. v.* A plant of a rush-like appearance; flowers very small.
2. *T. floribus* 3-andris, capsulis linearibus basi attenuatis lævibus 3-locularibus.—*Willd. sp. pl.* 2. p. 264. *palustre.*
Icon. *Fl. dan.* 490. *Engl. bot.* 366. ~
In marshes round the Salt-lake of Onondago, New York. ♂. July. *v. v.*
3. *T. floribus* 3-andris 3-fidis breviter pedicellatis, capsulis trigono-subrotundis, foliis subsetaceis scapum spicamve subæquantibus. *Mich. fl. amer.* 1. p. 208. *triandrum.*
In overflowed marshes, near Charlestown, Carolina. *Michaux.* ♂. +.

325. SCHEUCHZERIA. *Gen. pl.* 615.

1. *Scheuchzeria.* *Willd. sp. pl.* 2. p. 263. *palustris.*
Icon. *Fl. dan.* 76.
In swamps and on the borders of lakes, New York near Albany. ♂. June. *v. v.* Flowers greenish-yellow.

326. RUMEX. *Gen. pl.* 613.

1. *R. hermaphroditus*; valvulis integerrimis oblongis, unica præcipue granifera, foliis cordato-lanceolatis. — *Willd. sp. pl.* 2. p. 250. *sanguineus.*
Icon. *Engl. bot.* 1533.
In shady woods and moist meadows: Pennsylvania to Virginia. ♂. June, July. *v. v.* Leaves with red veins; flowers, as in all the rest, very inconspicuous.
2. *R. hermaphroditus*; valvulis ovatis integris, omnibus graniferis, foliis lanceolatis undulatis acutis.—*Willd. sp. pl.* 2. p. 251. *crispus.*

Icon. *Curt. lond.* 2. t. 20.

In dry fields and pastures, common. ♀. July. v. v.

- verticillatus.* 3. R. hermaphroditus; valvulis integerrimis, omnibus graniferis, spicis aphyllis, foliis lanceolatis, vaginis cylindricis.—*Willd. sp. pl.* 2. p. 250.

In rivulets and shady woods: Canada to Virginia. ♀. July. v. v.

- britannicus.* 4. R. hermaphroditus; valvulis integerrimis, omnibus graniferis, paniculæ spicis aphyllis, vaginis obsolete lacris, foliis lato-lanceolatis planis lævibus.—*Willd. sp. pl.* 2. p. 250.

Near rivulets: Virginia and Carolina. ♀. June, July. v. v.

- persicarioides.* 5. R. hermaphroditus; valvulis dentatis, omnibus graniferis, foliis lanceolatis undatis integris.—*Willd. sp. pl.* 2. p. 252.

In shady wet woods, on the banks of ditches: Virginia and Carolina. ♂. July. v. v.

- crispatulus.* 6. R. hermaphroditus; valvulis obtuse cordatis utrinque cristatis tridentatis, una nuda, binis inæqualiter graniferis, spicis aphyllis, foliis inferioribus ovalibus, superioribus lanceolatis, omnibus undulatis.—*Michx. fl. amer.* 1. p. 217.

In Kentucky. *Michaux.* +. Affinis *R. persicarioideo*.

- obtusifolius.* 7. R. hermaphroditus: valvulis dentatis, unica præcipue granifera, foliis radicalibus cordatis obtusis, caule scabriusculo.—*Willd. sp. pl.* 2. p. 254.

Icon. *Engl. bot.* 1999.

In old pastures and gardens, as a common weed; probably introduced. ♀. June, July. v. v. *Common Dock.*

- aquaticus.* 8. R. hermaphroditus; valvulis ovatis integris obsolete graniferis, foliis cordato-lanceolatis acutis.—*Willd. sp. pl.* 2. p. 255.

Icon. *Engl. bot.* 2104.

In small ponds and ditches: Pennsylvania to Virginia; rare. ♀. July, Aug. v. v.

- digynus.* 9. R. hermaphroditus, digynus; valvulis ovatis integris granis destitutis, foliis radicalibus reniformibus longius petiolatis.—*Willd. sp. pl.* 2. p. 258.

Icon. *Fl. dan.* 14. *Pluk. alm.* t. 252 f. 2.

In Labrador. *Colmaster.* ♀. June, July. v. s. in *Herb. Dickson.*

10. *R. dioica*; foliis lanceolato-hastatis, valvulis grano destitutis.—*Willd. sp. pl.* 2. p. 260.
 Icon. *Engl. bot.* 1574.
 Common in all dry fields and gravelly hills. 24. June
 —Aug. v. v.

Acetosella.

327. SMILAX. *Gen. pl.* 1528.

* *Caule fruticoso; ramis angulatis.*

1. *S. subinermis*; foliis lanceolatis acuminatis basi auriculato hastatis margine ciliato-aculeatis 3—5-nervibus, baccis globosis.—*Willd. sp. pl.* 4. p. 782. *hastata.*
S. Bona nox. Mich. fl. amer. 2. p. 237. *Walt. fl. car.* 245.
S. aspera δ. *Lam. encycl.* 6. p. 465.
 Icon. *Pluk. alm. t.* 111. f. 3.
 β. *S. foliis longis angustis lanceolatis. Walt. fl. car.* 245. *lanceolata.*
 On the sea-coast of Carolina and Florida. 2. June, July. v. v.
 2. *S. inermis*; foliis cordato-ovatis acutis ciliato-aculeatis 7-nervibus. *Willd. sp. pl.* 4. p. 781. *Bona nox.*
S. variegata. Walt. fl. car. 244.
 Icon. *Pluk. alm. t.* 111. f. 1.
 In woods of Carolina and Georgia. 2. July. v. v.
 3. *S. aculeata*; caule tetragono superne inermi, foliis inermibus ovatis subcordatis acutis 5-nervibus.—*Willd. sp. pl.* 4. p. 775. *quadrangulata.*
 In dry woods, on the edges of ponds: Pennsylvania Carolina. 2. June, July. v. v. Berries black.
 4. *S. aculeata*; foliis cordato-ovatis lævibus 3-nervibus, baccis acuminatis. *Walteri.*
S. China? Walt. fl. car. 245.
 In the lower sandy countries of Virginia and Carolina, on river sides. 2. July. v. v. Berries red.
 5. *S. aculeata*; foliis inermibus ovato-lanceolatis cuspidatis sub-5-nervibus subtus glaucescentibus, pedunculo communi petiolo longiore.—*Willd. sp. pl.* 4. p. 776. *Sarsaparilla.*
S. glauca. Mich. fl. amer. 2. p. 237. *Walt. fl. car.* 245.
 In hedges and swamps, common. 2. June, July. v. v.
 6. *S. subinermis*; foliis inermibus ovatis acutis cuspidatis 3-nervibus concoloribus, pedunculo communi petiolo brevior. *ovata.*
 Near Savannah in Georgia. *Enslen.* 2. July. v. s.
 Leaves very shining on both sides; berries black.

- ella*. 7. *S. subinermis*; caule obsolete angulato, foliis elongato-lanceolatis coriaceis glabris integerrimis 3-nervibus, umbellis paucifloris brevissime pedunculatis.
In sandy grounds, on the edge of rivulets: Carolina. *Walter*. $\frac{1}{2}$. June. *v. s. in Herb. Walter*. Berries white.
- ** *Caule fruticoso; ramis teretibus.*
- lanceolata*. 8. *S. inermis*; foliis inermibus lanceolatis, umbellis multifloris longe pedunculatis.—*Willd. sp. pl.* 4. p. 783.
Icon. *Catesb. car.* 2. t. 84.
Near the sea-coast of Virginia and Carolina. $\frac{1}{2}$. May, June. *v. v.* Berries red.
- putera*. 9. *S. inermis*; foliis oblongis acutis cordatis sub-5-nervibus subtus molliter pubescentibus, umbellis breviter pedunculatis, pedicellis brevissimis, baccis oblongis acutis.—*Willd. sp. pl.* 4. p. 785. *Mich. fl. amer.* 2. p. 238.
S. pumila. *Walt. fl. car.* 244
In shady woods: Carolina and Georgia. $\frac{1}{2}$. May. *v. s. in Herb. Lyon*. According to Walter, the berries are white.
- Pseudo-China*. 10. *S. inermis*; foliis inermibus, caulinis cordatis, rameis ovato-oblongis 5-nervibus, pedunculis longissimis.—*Willd. sp. pl.* 4. p. 785.
Icon. *Sloan. jam.* 1. t. 143. f. 1.
In sandy fields and dry woods: New Jersey to Carolina. $\frac{1}{2}$. May, June. *v. v.* The roots very large, and are searched after by hogs.
- rotundifolia*. 11. *S. sparse aculeata*; foliis subrotundo-ovatis acuminatis levissime cordatis 5-nervibus, baccis sphaericis.—*Willd. sp. pl.* 4. p. 779.
Common in hedge-rows: Canada to Carolina. $\frac{1}{2}$. June. *v. v.*
- caduca*. 12. *S. aculeata*; foliis ovatis mucronatis 5-nervibus, pedunculo communi vix petiolo longiore.—*Willd. sp. pl.* 4. p. 780.
In dry fields: Canada to Virginia. $\frac{1}{2}$. June. *v. v.*
- laurifolia*. 13. *S. aculeata*; ramis inermibus, foliis coriaceis ellipticis vel elliptico-lanceolatis obtusis recurvato-acutis 3-nervibus, umbellis brevissime pedunculatis.—*Willd. sp. pl.* 4. p. 779.
Icon. *Catesb. car.* 1. t. 15.
In sandy boggy woods: New Jersey to Georgia. $\frac{1}{2}$.

July, Aug. *v. v.* A very handsome vine, with very thick smooth leaves.

14. *S. aculeata*; foliis ovato-panduræformibus acuminatis 3-nervibus, pedunculo communi petiolo duplo longiore. *panduratus.*

In sandy woods: New Jersey to Carolina. $\frac{1}{2}$. July. *v. v.* Leaves smooth and shining on both sides.

*** *Caule herbaceo.*

15. *S. caule tereti scandente, foliis longe petiolatis triangulato-cordatis rotundato-obtusis, nervis glabris.*—*Willd. sp. pl. 4. p. 780.* *tamnoides.*

Icon. *Catesb. car. 1. t. 52.*

In sandy wet woods and bogs: Virginia and Carolina. $\frac{1}{4}$. July. *v. v.*

16. *S. caule angulato erecto simplici, foliis longe petiolatis ovalibus 7-nervibus, umbellis longissime pedunculatis, pedunculo compresso, baccis depresso-globosis.*—*Willd. sp. pl. 4. p. 782.* *herbacea.*

Icon. *Pluk. alm. t. 225. f. 4.*

In dry fields, on the edges of woods: New York to Carolina. $\frac{1}{4}$. June, July. *v. v.*

17. *S. caule tereti scandente, foliis subrotundo-ovatis cordatis acuminatis 9-nervibus, umbellis longissime pedunculatis.*—*Willd. sp. pl. 4. p. 786.* *peduncularis.*

In old fields on the edges of woods: Canada to Pennsylvania. $\frac{1}{4}$. May—July. *v. v.*

328. DIOSCOREA. *Gen. pl. 1530.*

1. *D. foliis verticillatis quaternis alternisve cordatis acuminatis utrinque glabris 9-nervibus, nervis lateralibus bifidis.*—*Walt. fl. car. 246.* *quaternata.*

In hedges and old fields: Virginia and Carolina. $\frac{1}{4}$. July. *v. v.*

2. *D. foliis alternis oppositis verticillatisque cordatis acuminatis subtus pubescentibus 9-nervibus, nervis lateralibus simplicibus.*—*Willd. sp. pl. 4. p. 796.* *villosa.*

D. quinata. Walt. fl. car. 246.

D. paniculata. Mich. fl. amer. 2. p. 239.

Icon. *Jacq. ic. t. 626. Pluk. alm. t. 375. f. 5.*

In woods and hedges common: Canada to Carolina. $\frac{1}{4}$. May, June. *v. v.*

IV. TETRAGYNIA.

329. SAURURUS. *Gen. pl.* 632.*cernuus.*

- 1.
- S. caule folioso polystachyo, foliis sagittato-cordatis.*
-

Willd. sp. pl. 2. p. 292.*Anonymos aquatica. Walt. fl. car.* 127.*Mattuschkea aquatica. Gmel. syst. nat.* 589.*Icon. Pluk. alm. t.* 117. f. 3 & 4.In swamps and shady wet woods, frequent: Canada to Carolina. *U.* Aug. Sept. *v. v.*

V. POLYGYNIA.

330. WENDLANDIA. *Willd. sp. pl.* 2. p. 275.*populifolia.*

- 1.
- Wendlandia. Willd. l. c.*

Androphyllax scandens. Wendl. obs. 38.*Menispermum carolinianum. Walt. fl. car.* 248. *Mich. fl. amer.* 2. p. 242.*Cissampelos smilacina. Willd. sp. pl.* 4. p. 863.*Icon. Wendl. hort. t.* 16. *Jacq. ic. rar.* 3. t. 629. *Catesb. car.* 1. t. 51.

In hedges and woods: Carolina to Florida. *h.* June, July. *v. v.* Flowers very small, greenish-white; berries red. I venture to take *Cissampelos smilacina* as a synonym, although Jacquin's figure deviates in character very much from the present genus; but as I have had the opportunity of seeing the *Menispermum* of the above authors frequently in flower, I am convinced that all the above synonyma are correct: the number of stamina being variable, brings the genus so near to *Menispermum*, that I should not have taken it from it, if it were not on the authority of Willdenow.

331. ALISMA. *Gen. pl.* 625.*trivialis.*

- 1.
- A. foliis ovalibus cordatis obtusissimis 9-nerviis, umbellis composite verticillato-paniculatis, fructibus obtuse-trigonis.*

A. Plantago. Mich. fl. amer. 1. p. 218.

In ditches and ponds, common : Canada to Florida. *℥. July. v. v.*

2. *A. foliis ovalibus subcordatis abrupte acuminatis 5-nervi-
bus umbellis composite verticillato-paniculatis, pedi-
cellis filiformibus.* *parviflora.*

In salt-marshes, on the coast of New Jersey and Pennsylvania. *℥. July, - ug. v. v.* Leaves and flowers small. Both species approach near to *A. Plantago*, but are sufficiently distinct to admit them to be called species.

3. *A. pusilla ; foliis lineari-subulatis, umbellis subsimplici-
bus.—Willd. sp. pl. 2. p. 279.* *subulata.*

In overflowed places : New York to Florida, scarce ; plentifully on the shores of the Delaware near Philadelphia, to the edge of low water mark. ☉. Aug. *v. v.* A small plant, with flowers in proportion large.

4. *A. foliis ovatis obtusis, pedunculis solitariis. Willd. sp. pl. 2. p. 278.* *natans.*

In stagnant waters, on the banks of the St. Laurence. *℥. July. v. s.*

VII. HEPTANDRIA.

I. MONOGYNIA.

332. TRIENTALIS. *Cal.* 7-phyllus. *Cor.* 7-partita, plana. *Bac.* 1-locularis sicca.
 333. ÆSCULUS. *Cal.* 5-dentatus. *Cor.* 5-petala, inæqualis, calyci inserta. *Caps.* 3-locularis.

I. MONOGYNIA.

332. TRIENTALIS. *Gen. pl.* 626.

americana.

1. *T. foliis angusto-lanceolatis acuminatis obliquis.*
T. europæa. Mich. fl. amer. 1. p. 220.

In cedar swamps and other sphagnous places on high mountains: Canada to Virginia. *Æ.* July, Aug. *v. v.* Flowers white. This delicate little plant differs considerably from the European sort, although Michaux considers it to be the same.

333. ÆSCULUS. *Gen. pl.* 628.

Pavia.

1. *Æ. foliis quinatis glabris inæqualiter serratis, racemo laxo, fasciculis subtrifloris, corollis 4-petalis, petalorum conniventium unguibus longitudine calycis, staminibus 7. corolla brevioribus, fructibus inermibus.*—*Willd. sp. pl.* 2. p. 286.

Icon. Schmidt arb. 39. *Trew ehret. t.* 15. *Mich. arb.* . . .

In fertile valleys, on the mountains of Virginia and Carolina. *Æ.* May, June. *v. v.* Flower scarlet; generally only a shrub or small tree.

2. *A. foliis quinatis utrinque acuminatis subtus tomentosis inæqualiter serrulatis, racemo thyrsoides, fasciculis multifloris, corollis 4-petalis, petalorum conniventium unguibus longitudine calycis, staminibus 7. corolla brevioribus, fructibus inermibus.*

In Georgia, principally the western territory. *Lyon.* h. May. v. v. Not above four feet high; flowers yellow, white, and purple variegated.

discolor.

3. *A. foliis quinatis subtus ad costam pubescentibus æqualiter serrulatis, racemo thyrsoides, fasciculis multifloris, corollis 4-petalis, petalorum conniventium unguibus calyce longioribus, staminibus corolla brevioribus, fructibus inermibus.*—*Willd. sp. pl.* 2. p. 285.

A. lutea. Mich. fl. amer. 1. p. 219.

Icon. *Schmidt arb.* 40. *Act. soc. nat. berol.* 8. t. 6. *Mich. arb.* . . .

In the mountains of Virginia and Carolina, and woods of Kentucky. h. May, June. v. v. Grows to a large tree; flowers yellow.

flava.

4. *A. foliis quinatis glaberrimis, corollis 4-petalis patulis, unguibus longitudine calycis, staminibus corolla longioribus, fructibus spinosis.* *Willd. enum. pl.* 405.

In the western counties of Pennsylvania and Virginia. h. June. v. v.

glabra.

5. *A. foliis quinatis, corollis 4-petalis patulis, unguibus calyce brevioribus, staminibus corolla duplo longioribus, fructibus spinosis.* *Willd. enum.* 406.

In the forests of Kentucky. h. June. v. s. A tall tree.

pallida.

6. *A. foliis quinatis subtus subtomentosis serrulatis, racemo longissimo laxo, fasciculis subtrifloris, corollis 4-petalis patulis, staminibus longissime exertis.*—*Mich. fl. amer.* 1. p. 220.

A. parviflora. Walt. fl. car. 128.

On the banks of rivers: Georgia, principally near St. Augustin. h. May, June. v. v. A small shrub; flowers white, very ornamental. The whole of this genus is known in their native countries by the name of *Buck's-eye-tree*.

macrostachya.

VIII. OCTANDRIA.

I. MONOGYNIA.

* *Germen inferum.*

334. RHEXIA. *Cal.* 4-fidus. *Cor.* 4-petala, calyci inserta. *Anth.* declinatae. *Caps.* 4-locularis, intra ventrem calycis.
335. EPILOBIUM. *Cal.* 4-fidus, tubulosus. *Cor.* 4-petala. *Caps.* oblonga, 4-locularis. *Sem.* papposa.
336. GAURA. *Cal.* 4-fidus, tubulosus. *Cor.* 4-petala, adscendens. *Nux* 1-sperma. 4-angula.
337. CLARKIA. *Cal.* 4-fidus, tubulosus. *Cor.* 4-petala : petala cruciatim 3-loba. *Filam.* 4. castrata. *Caps.* 4 locularis.
338. OENOTHERA. *Cal.* 4-fidus, tubulosus. *Cor.* 4-petala : petalis integris. *Filam.* omnia fertilia. *Anth.* lineares. *Caps.* 4-locularis.
339. OXYCOCCUS. *Cal.* 4-fidus. *Cor.* 4-partita : laciniis sublinearibus, revolutis. *Filam.* conniventia. *Anth.* tubulosae, bipartitae. *Bacca* polysperma.

** *Germen superum.*

340. MENZIESIA. *Cal.* 1-phyllus. *Cor.* 1-petala, ovata. *Fil.* receptaculo inserta. *Caps.* 4-locularis, dissepimenta e marginibus inflexis valvularum. *Sem.* numerosa, oblonga.
341. DIOSPYROS. *Cal.* 4-fidus. *Cor.* urceolata, 4-fida. *Styl.* 4-fidus. *Bacca* 8-sperma. *Polygama.*
342. ACER. *Cal.* 5-fidus. *Pet.* 5. *Samaræ* 2. basi unitae, 1-spermae, alatae. *Polygamum.*
343. DISCA. *Cal.* 0. *Cor.* tubulosa, limbo obsoleto. *Stem.* tubo longiore. *Bacca* 1-sperma.
344. JEFFERSONIA. *Cal.* 5-phyllus, deciduus. *Pet.* 8. incurvo-patentia. *Caps.* obovata, substipitata, 1-lo-

cularis, infra apicem dehiscens. *Sem.* plura, oblonga, ad basin arillata.

345. *PISTIA*. *Cal.* spatha tubuloso-cucullata, lingulata. *Cor.* O. *Filam.* laterale. *Anther.* 3—8. *Caps.* 1-locularis, polysperma.

II. DIGYNIA.

346. *CHRYSOPLENIUM*. *Cal.* 4-fidus, coloratus. *Cor.* O. *Caps.* birostris, 1-locularis, polysperma.

III. TRIGYNIA.

347. *POLYGONUM*. *Cal.* O. *Cor.* 5-partita, calycina. *Sem.* 1. angulatum, tectum.
348. *BRUNNICHIA*. *Cal.* angulatus, 5-fidus, demum coriaceus. *Cor.* O. *Caps.* 1-sperma, inclusa calyce valde aucto, pedicello ensiformi-dilatato suffulto.
349. *CARDIOSPERMUM*. *Cal.* 4-phyllus. *Pet.* 4. *Nectar.* 4-phyllum, inæquale. *Caps.* 3. connatæ, inflatæ.
350. *SAPINDUS*. *Cal.* 4-phyllus. *Pet.* 4. *Caps.* carnosæ, connatæ, ventricosæ.

IV. TETRAGYNIA.

351. *MYRIOPHYLLUM*. *Cal.* 4-fidus. *Pet.* 4. caduca. *Stam.* 4. 6. 8. *Styl.* O. *Sem.* 4. corticata.

I. MONOGYNIA.

334. *RHEXIA*. *Gen. pl.* 636.

1. *R.* caule rufescenti hirsutissimo, foliis hirsutis subpetiolatis, ovali-lanceolatis, lanceolatis linearibusve, calyce longo tubuloso glabriusculo.—*Mich. fl. amer.* 1. p. 221. *Willd. sp. pl.* 2. p. 301.

Icon. *Pluk. mant. t.* 428. *f.* 1. *Lam. illustr.* 283. *f.* 1.

- α. *R.* foliis angusto-lanceolatis vel oblongis, floribus saturate purpureis. *Mich. l. c.*

mariana;

purpurea.

- rubella*. β. *R. foliis ovali-lanceolatis vel oblongis, floribus dilute rubellis. Mich. l. c.*
- exalbida*. γ. *R. foliis linearibus, caule hirsutiore, floribus pallidis. Mich. l. c.*
R. lanceolata. Walt. fl. car. 129.
 In bogs and sandy woods, near waters: New Jersey to Carolina. ♀. July, Aug. *v. v.* From one to three feet high; flowers handsome.
- ciliosa*. 2. *R. caule subquadrangulo glabro, foliis parvis subpetiolatis ovalibus subtus glabris, supra rariter hispidis, margine distincte ciliatis, floribus subsolitariis involucrentis, antheris breviusculis.—Mich. fl. amer. 1. p. 221.*
R. petiolata. Walt. fl. car. 130?
 In bogs of Lower Carolina. ♀. July, Aug. *v. s. in Herb. Enslen.* Flowers large, beautiful purple.
- virginica*. 3. *R. caule alato-angulato pilis rarioribus adperso, foliis sessilibus ovali-lanceolatis denticulis setaceis distinctisque ciliato-serratis, hirsutiae sparsa utrinque hispidulis. Mich. fl. amer. 1. p. 222.*
Icon. Bot. mag. 968. Pluk. alm. t. 202. f. 8. Lam. illustr. t. 283. f. 2.
- 7-nervia*. β. *R. caule 4–5-pedali. Walt. fl. car. 130.*
 On the edges of ponds, in wet woods and bogs: New York to Carolina. ♀. July, Aug. *v. v.* Flowers large, purple, and very handsome.
- glabella*. 4. *R. caule cylindraceo glabro, foliis sessilibus erectis lanceolatis laevibus glabris tenuissime denticulatis, calycibus brevissime hirsutiae glutinosae. Mich. fl. amer. 1. p. 222.*
- Alifanus*. β. *R. foliis subovatis. Walt. fl. car. 130.*
 In sandy moist woods: Carolina and Georgia. ♀. July. *v. s. in Herb. Enslen.* Flowers the largest of the North American sorts, deep purple.
- stricta*. 5. *R. caule stricte-erecto alato-tetragono glabro ad genicula brevi-barbato, foliis sessilibus erectis angusto-lanceolatis attenuato-acuminatis trinerviis utrinque glabris, corymbo dichotomo, calycibus glabriusculis.*
 In the bogs of Lower Carolina and Georgia. ♀. June, July. *v. s. in Herb. Enslen.* Flowers very handsome, purple.
- lutea*. 6. *R. caule quadrangulo hirsuto, foliis rariter longiusculeque hirsutis, inferioribus cuneato-oblongis obtusis, superioribus lanceolatis, antheris breviusculis. Mich. fl. amer. 1. p. 222. Walt. fl. car. 130.*

Rhosia ciliosa.

Rhosia lutea.

In pine-woods of Georgia and Florida. ☉. June, July.
v. s. in Herb. Leconte. Flowers small, yellow.

7. *R. caule cylindrico subpubescente, foliis alternis linearibus oblongis obtusis sessilibus utrinque pubescentibus, floribus subsolitariis.*—*Lam. encycl.* 6. p. 2. *linearifolia.*
 In Carolina. *Bosc.* +. Flowers yellow.

335. EPILOBIUM. *Gen. pl.* 639.

1. *E. foliis sparsis lineari-lanceolatis venosis glabris, floribus inæqualibus, staminibus declinatis.*—*Willd. sp. pl.* 2. p. 313. *angustifolium.*

Icon. *Fl. dan.* 289. *Curt. fl. lond.* 2. t. 24.

In wet springy ground in the mountains of New Hampshire, New York, and Pennsylvania, also in Canada.
 ♀. July. *v. v.* Flowers beautiful purple, sometimes white; the plant often above five feet high.

2. *E. foliis alternis lanceolato-ovatis subintegerrimis pubescentibus aveniis, floribus inæqualibus.* *Willd. sp. pl.* 2. p. 314. *latifolium.*

Icon. *Fl. dan.* 565.

- β. *E. foliis angusto-lanceolatis integerrimis, caule pumilo. tetrapetalum.*
Pallas in Herb. Lambert.

In Labrador. β. on the north-west coast. ♀. July.
v. s. in Herb. Lambert. Flowers purple, large.

3. *E. caule tetragono glabriusculo, foliis oppositis, supremis alternis lanceolatis acuminatis serrulatis, pedunculis axillaribus alternis elongatis. calycis laciniis angustis longitudine petalorum, stylo exerto, stigmate crasso 4-lobo.* *luteum.*

On the north-west coast. *Pallas.* ♀. *v. s. in Herb. Lambert.* Flowers yellow, the size of *E. angustifolium*.

4. *E. caule lineis prominulis subquadrangulatis, foliis oppositis, supremis alternis lanceolatis serrulatis.*—*Willd. sp. pl.* 2. p. 317. *tetragonum.*

Icon. *Fl. dan.* 1029.

In low grounds: Canada to Carolina. ♀. July. *v. v.*
 Flowers small, pale red.

5. *E. caule tereti pubescente superne virgatim ramoso, foliis caulinis oppositis, rameis alternis, linearibus integerrimis, floribus paucis terminalibus longissime pedunculatis.*

E. oliganthum. *Mich. fl. amer.* 1. p. 223 ?

In Canada and on the high mountains of New York and Pennsylvania. $\mathcal{U}$. July. *v. v.* Flowers very small, pale red or white.

coloratum. 6. *E. caule tereti pubescente, foliis lanceolatis serrulatis petiolatis oppositis, superioribus alternis glabris rubro-venosis.* *Willd. enum.* 411.

In Pennsylvania. *Muhlenberg.* $\mathcal{U}$. July. *v. v.*

palustre. 7. *E. caule tereti, foliis sessilibus lanceolatis subdenticulatis, stigmatibus indiviso.*—*Willd. sp. pl.* 2. p. 317.
Icon. Engl. bot. 346.

In low grounds: Pennsylvania to Virginia. $\mathcal{U}$. July. *v. v.*

alpinum. 8. *E. caule simplici subtereti 1-2-floro, foliis oppositis ellipticis integerrimis, floribus sessilibus.*—*Willd. sp. pl.* 2. p. 318.

Icon. Fl. dan. 322.

In Labrador. *Colmaster.* $\mathcal{U}$. May, June. *v. s. in Herb. Dickson.* The smallest species, not above two inches high; flowers pale purple.

336. GAURA. *Gen. pl.* 638.

biennis. 1. *G. foliis lanceolatis dentatis, spica conferta, fructibus subrotundo-4-gonis pubescentibus.*—*Willd. sp. pl.* 2. p. 311.

Icon. Bot. mag. 389. *Pluk. amalth. t.* 428. *f.* 2.

On the edges of woods in fertile stony soil: Pennsylvania to Carolina. $\mathcal{J}$. July, Aug. *v. v.* Flowers rose-coloured, large.

angustifolia. 2. *G. foliis crebris linearibus repando-undulatis, spicæ fructibus dissitis oblongo-4-gonis utrinque acutis subcandicantibus.* *Mich. fl. amer.* 2. p. 226.

In dry old fields and woods: Virginia to Carolina. $\mathcal{J}$. July. *v. v.* Flowers scarcely half the size of the foregoing, pale red.

337. CLARCKIA. *Pursh in linn. soc. trans.* v. 11.

pulchella. 1. *Clarckia.* *Pursh l. c.*

On the Koonskoosky and Clarck's rivers. *M. Lewis.* $\mathcal{J}$. June. *v. s.* Flowers beautiful rose-coloured or purple.

Caulis erectus, teres, superne subramosus, pedalis et ultra. Folia alterna, linearia, integerrima, glabra.

Clarkia pulchella.

Flores ex axillis superioribus, solitarii, subsessiles, magni, amœne purpurei. *Calyx* ænotheræ. *Petala* unguiculata, 3-partita, laciniis lateralibus divaricatis. *Stamina* 4: antheris linearibus, involutis: altera 4. duplo breviora: antheris castratis, subrotundis. *Stylus* longitudine fere petalorum. *Stigma* pallide luteum, 4-partitum: laciniis subrotundis.

338. OENOTHERA. *Gen. pl.* 637.

1. *O. caule villosa scabra, foliis ovato-lanceolatis planis dentatis, floribus terminalibus subspicatis sessilibus, staminibus corolla brevioribus.*—*Willd. sp. pl.* 2. p. 306. *biennis.*
Icon. Fl. dan. 446. *Alp. exot. t.* 324.
 Common in old fields: New England to Carolina. ♂. June, July. *v. v.*
 I have frequently observed a singularity in this plant, and it might be interesting to make further inquiry into its cause; it is, that in a dark night, when no objects can be distinguished at an inconsiderable distance, this plant when in full flower can be seen at a great distance, having a bright white appearance, which probably may arise from some phosphoric properties of the flowers.
2. *O. caule purpurascente muricato, foliis lanceolatis planis, staminibus longitudine corollæ.* *Willd. sp. pl.* 2. p. 807. *muricata.*
Icon. Murray com. goett. 7. t. 1.
 In old fields and along fences: Pennsylvania to Carolina. ♂. July, Aug. *v. v.* Flowers smaller than the first species.
3. *O. caule lævi subvillosa, foliis ovato-lanceolatis planis, staminibus corolla longioribus.* *Willd. sp. pl.* 2. p. 306. *parviflora.*
Icon. Mill. ic. 189. f. 1. *Meerb. ic.* 34.
 In fields and woods: Canada to Virginia; rare. ♂. July. *v. v.*
4. *O. caule glabriusculo ramoso, foliis ovato-lanceolatis glabris, staminibus declinatis.* *Willd. sp. pl.* 2. p. 306. *grandiflora.*
 In woods and fields of Carolina. *Bartram.* ♂. July. *v. v.* Flowers larger than any other of the North American species, and of an agreeable scent.
5. *O. caule diffuso molliter pubescente, foliis ovali-oblon-* *sinuata.*

gis dentato-sinuatis, floribus axillaribus villosis, capsulis prismaticis.—*Willd. sp. pl.* 2. p. 309.

Icon. *Murray com. gætt.* 5. t. 9. *Pluk. alm. t.* 203. f. 3

In dry fields of Virginia and Carolina. ☉. June, July. *v. v.*

minima.

6. *O. caule simplici unifloro, foliis pusillis lanceolatis integerrimis pilosis, flore sessili hirsuto, germine prismatico.*

In barren pine-woods of Georgia. *Enslen.* ☉. June. *v. s.* Not above an inch high; flower smallest of all the genus.

glauca.

7. *O. glaberrima; foliis lato-ovalibus repando-subdentatis lævigatis glaucis, capsula ovato-tetragona pedicellata.*—*Mich. fl. amer.* 2. p. 224.

On the banks of the Mississippi, in Illinois, and on the Peaks of Otter, Virginia. ♀. July. *v. v.* A handsome species with considerable large flowers.

fruticosa.

8. *O. glabriuscula; foliis lanceolatis subdentatis acutis, capsulis pedicellatis oblongo-clavatis angulatis.* *Willd. sp. pl.* 2. p. 310.

Icon. *Bot. mag.* 332. *Meerb. ic.* 33.

In shady woods, on the edges of rivulets and springs: Pennsylvania to Carolina. ♀. July. *v. v.* Commonly called *Sun-drops*.

pumila.

9. *O. glabra; caulibus adscendentibus, foliis lanceolatis integerrimis obtusis, capsulis subsessilibus elliptico-obovatis angulatis.*—*Willd. sp. pl.* 2. p. 310.

Icon. *Bot. mag.* 355. *Mill. dict. t.* 188.

In dry fields of Virginia and Carolina. ♀. July. *v. v.*

hybrida.

10. *O. caule erecto villosa, foliis utrinque pubescentibus lanceolatis remote subdentatis undulatis, capsulis subspicatis breviter stipitatis ovato-tetragonis.* *Mich. fl. amer.* 1. p. 225.

O. mollissima. *Walt. fl. car.* 129.

Onagra floribus speciosis luteis &c. *Gron. fl. virg.* 59.

In sandy fields of Virginia and Carolina. ♀. June, July. *v. v.*

linearis.

11. *O. tota pubescens, gracilis; foliis linearibus integris, capsulis longiuscule stipitatis subrotundo-tetragonis villosis.* *Mich. fl. amer.* 2. p. 225.

α. Pluk. mant. t. 426. f. 6.

β. Onagra 491. *Gron. fl. virg.* 59.

In dry barren fields; Virginia and Carolina. ♀. July.

angustifolia.
brevifolia.

v. v. Flowers large, in proportion to the very low plant.

12. *O. caule debili pubescente, foliis lanceolatis obtusiusculis planis integris, calycis tubo laciniis duplo brevior, capsula clavata acutangula sessili.*—*Mich. fl. amer.* 1. p. 225. *chrysantha.*

O. biennis. *Walt. fl. car.* 129?

In barren lands of Canada and on the mountains of Pennsylvania and Carolina. $\frac{1}{2}$. July, Aug. *v. v.* Flowers small, golden-yellow.

13. *O. subpubescens; caule pumilo subsimplici, foliis lanceolato-oblongis obtusiusculis integris, floribus ad summitatem axillaribus, capsulis sessilibus clavato-turbina- tis subæqualiter 8-gonis.*—*Mich. fl. amer.* 1. p. 225. *pusilla.*

On rocks near Lake Mistassins. *Michaux.* On high mountains of Pennsylvania and Virginia. $\frac{1}{2}$. July, Aug. *v. v.* Plant upright, flowers small.

14. *O. scapis radicalibus unifloris, foliis oblongo-lanceolatis repando-denticulatis decurrentibus, petalis obcordatis, staminibus corolla brevioribus.* *scapigera.*

On the falls of the Missouri. *M. Lewis.* $\frac{1}{2}$. July. *v. s.* Flowers large, purple, with dark veins; resembles *O. acaulis* Cavanill.

All the species, excepting the last one, have yellow flowers.

339. OXYCOCCUS. *Pers. syn.* 1. p. 419.

1. *O. repens; foliis ovalibus integerrimis margine revolutis subacutis glabris subtus albicantibus, pedicellis elongatis, corollæ laciniis ovalibus.* *vulgaris.*

O. palustris. *Pers. syn.* 1. p. 419.

Vaccinium Oxycoccus a. ovalifolius. *Mich. fl. amer.* 1. p. 228.

Vaccinium Oxycoccus. *Willd. sp. pl.* 2. p. 354.

Icon. Fl. dan. 80. *Lam. illustr. t.* 286. *f.* 3.

In bogs and mosses on the mountains, frequent: Canada to Pennsylvania. $\frac{1}{2}$. May—July. *v. v.* A small evergreen creeping plant; flowers red; berries light purple, smaller than the following species.

2. *O. repens; caulibus adscendentibus, foliis oblongis integerrimis planiusculis obtusis glabris subtus albicantibus, pedicellis elongatis, corollæ laciniis lanceolatis.*—*Pers. syn.* 1. p. 419. *macrocarpus.*

Vaccinium macrocarpon. *Willd. sp. pl.* 2. p. 355.

Vaccinium Oxycoccus β . *oblongifolius*. *Mich. fl. amer.* 1 p. 228.

Icon. *Wangh. amer. t.* 30. f. 67. *Pluk. alm. t.* 326. f. 6.

In bogs, principally on sandy soil and high mountains, frequent: Canada to Virginia. $\hbar$. May—July. *v. v.*

Berries larger, bright red, known by the name of *Cranberries*, as a very agreeable tart, and collected in great abundance for that purpose.

erectus.

3. *O. erectus*; foliis ovalibus acuminatis serrulatis ciliatisque, pedicellis axillaribus, corolla longa demum revoluta.

Vaccinium erythrocarpum. *Mich. fl. amer.* 1. p. 227.

On high mountains of Virginia and Carolina. $\hbar$. June. *v. v.* Berries scarlet and quite transparent, of an exquisite taste.

340. MENZIESIA. *Smith ic. inedit.* 56.

ferruginea.

1. *M. foliis obovato-lanceolatis subtus extra nervos glabris, calycibus sub-4-fidis, floribus urceolatis octandris*.—*Willd. sp. pl.* 2. p. 355.

M. urceolaris. *Parad. lond.* 44.

Icon. *Smith ic. inedit.* 1. t. 56.

On the Columbia river. *M. Lewis*. $\hbar$. June. *v. s.* in *Herb. Lambert*. A considerable tall shrub; flowers of a ferruginous colour, as in the following species. Previous to my seeing Mr. Salisbury's account and the specimens in the herbarium of A. B. Lambert, Esq. I considered this and the following species to be the same, though I had seen specimens of the present one in the collection of M. Lewis, Esq.

globularis.

2. *M. foliis lanceolatis subtus glaucis extra nervos pubescentibus, calycibus 4-fidis, floribus globosis octandris*.—*Salisb. in parad. lond.* 44.

M. Smithii. *Mich. fl. amer.* 1. p. 235.

Azalea pilosa. *Lam. illustr.* 1. p.

Icon. *Parad. lond.* 44.

On high mountains of Virginia and Carolina; plentifully on the Cacapon mountains near Winchester, Virginia. $\hbar$. May, June. *v. v.* Not above four feet high. Flowers yellowish-brown.

empetriformis.

3. *M. foliis linearibus serrulatis subtus concavis, pedunculis terminalibus aggregatis, floribus campanulatis decan-*

dris, calycibus obtusis. *Smith in linn. trans.* 10. p. 380.

On the north-west coast. *Menzies*. On the Rocky-mountains and near the mouth of Columbia river. *M. Lewis*. $\frac{1}{2}$. July. *v. s.* Flowers pale red.

4. *M. foliis sparsis confertis linearibus obtusis cartilagineo-denticulatis, pedunculis terminalibus aggregatis unifloris, floribus campanulatis 10-andris, calycibus acutissimis.*—*Swartz in linn. trans.* 10. p. 377. t. 30. f. 1. *cærulea.*
Andromeda taxifolia. Pall. fl. ross. t. 72. f. 2.
Erica cærulea. Willd. sp. pl. 2. p. 393.
Phyllodoce taxifolia. Parad. lond. 36.
 On the White Hills of New Hampshire. *Prof. Peck.*
 On the north-west coast and Labrador. *Herb. Banks.*
 $\frac{1}{2}$. July. *v. s.* Flowers red.

341. DIOSPYROS. *Gen. pl.* 1598.

1. *D. foliis ovato-oblongis acuminatis glabris reticulato-venosis, petiolis pubescentibus, gemmis glabris.*—*Willd. sp. pl. 4. p. 1107.* *virginiana.*
Icon. Mill. ic. 126. Catesb. car. 2. t. 76. Mich arb. 12.
 In woods and old fields: New York to Louisiana. $\frac{1}{2}$.
 May. *v. v.* A middle-sized tree; flowers pale yellow; fruit known by the name of *Persimon*, the size of a common plum, golden-yellow, of an agreeable taste, when perfectly ripe, but extremely astringent before that time. In the Northern States the fruits are not eatable till the frost has mellowed them.
2. *D. foliis oblongis acutis subtus pubescentibus, petiolis longis, fructibus oligospermis.* *pubescens.*
 In the lower counties of Virginia, Carolina and Georgia. $\frac{1}{2}$. April. *v. v.* Though Michaux in his *Arbres forestiers* considers this only as a variety, I am inclined to take it as a distinct species; not only shape and pubescence of the leaf, but difference in the structure of the fruit and seeds, indicate it sufficiently.

342. ACER. *Gen. pl.* 1590.

1. *A. foliis palmato subquinelobis basi cordatis inæqualiter inciso-dentatis subtus glaucis, incisuris acutis, umbellis sessilibus, pedicellis elongatis, germinibus glabris.*—*Willd. sp. pl. 4. p. 984.* *rubrum.*

Icon. *Mich. arb.* 14. *Schmidt arb.* 1. t. 6. *Catesb. car.* 1. t. 62.

In low woods : Canada to Florida. $\frac{1}{2}$. April, May. *v. v.* A middle sized tree : flowers and seeds red ; commonly known under the name of *Red-maple* or *Swamp-maple*.

dasycarpum. 2. *A. foliis palmato-5-lobis basi truncatis inæqualiter inciso-dentatis subtus glabris glaucisque, sinubus obtusis, floribus conglomeratis, pedicellis brevissimis, geminibus tomentosis.*—*Willd. sp. pl.* 4. p. 985.

A. eriocarpum. Mich. fl. amer. 2. p. 253.

A. tomentosum. Hort. paris.

Icon. *Mich. arb.* 13. *Schmidt arb.* 1. t. 7.

On the banks of rivers : New England to Georgia. $\frac{1}{2}$. April, May. *v. v.* A large tree ; flowers and seed greenish-yellow ; known by the name of *White-* or *Soft-maple*.

barbatum. 3. *A. foliis ovato-cordatis breviter trilobis inæqualiter serratis subtus ad nervos pubescentibus glaucisque, pedunculis pilosis masculis ramosis, femineis simplicibus, calycibus intus barbatis, capsulæ alis erectis.*—*Mich. fl. amer.* 2. p. 252.

A. carolinianum. Walt. fl. car. 251.

In deep pine and cedar swamps : New Jersey to Carolina. $\frac{1}{2}$. April, May. *v. v.* A small tree ; flowers pale-green ; leaves small.

saccharinum. 4. *A. foliis palmato-5-lobis basi subcordatis acuminatis sinuato-dentatis subtus glaucis, pedunculis corymbosis nutantibus.*—*Willd. sp. pl.* 4. p. 985.

Icon. *Mich. arb.* 15. *Schmidt arb.* 1. t. 8.

In low rich valleys : Canada to Pennsylvania. $\frac{1}{2}$. April, May. *v. v.* A large timber tree ; flowers yellow. The sugar prepared from the sap of this tree is one of the greatest conveniences for the inhabitants of the western countries, is equal to any other sugar, and procured with little trouble.

nigrum. 5. *A. foliis palmato-5-lobis sinu clauso cordatis, lobis divaricatis sinuato-subdentatis subtus pubescentibus, floribus corymbosis, capsulis turgide subglobosis.*—*Mich. arb.* p. 238.

Icon. *Mich. arb.* 16.

On mountain lands : New York to Carolina. $\frac{1}{2}$. April, May. *v. v.* This large tree produces sugar similar

to the foregoing species, and occupies the same situations where the other is not found; called *Black-maple*.

6. A. foliis digitato-5-lobis, sinubus rotundatis, lobis subtrilobatis repando-dentatis subtus pubescentibus, racemis erectis, filamentis 9. hirsutis, germinibus hirsutissimis. *macrophyllum.*

On the great rapids of the Columbia river. *M. Lewis.* ½. April. *v. s.* A very tall tree; leaves larger than any other known species; flowers greenish-yellow, in long compound racemes.

Arbor grandis. *Ramuli* juniores purpurascentes, glabri. *Folia* magna longe petiolata, juniora pubescentia. *Bractee* gemmarum longissimæ, lineares, apice incisæ, sericeo-villosæ. *Racemi* terminales, erecti, elongati. *Pedicelli* inferne aggregati, superne solitarii, glabri. *Calyx* 9-fidus: laciniis obovatis, interioribus vix latioribus. *Filamenta* 9. subulata, supra medium barbata, calyce vix longiora. *Germina* hirsutissimum. *Stylus* glaber. *Flores* masculi decandri: filamentis calyce duplo longioribus.

7. A. foliis orbiculatis basi subcordatis 7-lobis inæqualiter acute-dentatis utrinque glabris, nervis venisque ad axillas pilosis. *circinatum.*

On the great rapids of Columbia river. *M. Lewis.* ½. *v. s. s. fl.* This beautiful species has leaves of the size of *A. rubrum*.

8. A. foliis inferne rotundatis, superne acuminato-tricuspidatis argute-serratis glabris, racemis simplicibus pendulis.—*Mich. fl. amer.* 2. p. 252. *striatum.*

A. pensylvanicum. *Willd. sp. pl.* 4 p. 989.

A. canadense. *Marsh. arb.*

Icon. *Mich. arb.* 17. *Schmidt arb.* 10. *Wangh. amer.* t. 12 f. 28.

In mountain woods: Canada to Virginia. ½. May. *v. v.* A small tree with an elegant striped bark; known by the name of *Striped-maple* or *Moose wood*.

9. A. foliis subquinelobis acutis dentatis subtus pubescentibus, racemis compositis erectis.—*Willd. sp. pl.* 4. p. 988. *montanum.*

A. pensylvanicum. *Wangh. amer.* 82. t. 12. f. 30.

A. parviflorum. *Ehrh. Beitr.* 4. p. 25.

A. spicatum. *Lam. encycl.* 2. p. 377.

Icon. *Schmidt arb.* 11. *Du Roi herb.* 1. t. 2.

In Canada and on the Allegany mountains; frequent.
 ½. April, May. *v. v.* Flowers very small, greenish-yellow.

- Negundo.* 10. *A. foliis pinnatis ternatisve inæqualiter serratis, floribus dioicis.* *Willd. sp. pl.* 4. *p.* 992.
Icon. Mich. arb. 18. *Schmidt arb.* 12. *Wangh. amer.* t. 12. *f.* 29.
 On the banks of rivers: Pennsylvania to Carolina. ½.
 May, June. *v. v.* A large tree, commonly called
Box Elder or *Ash-leaved Maple*.

343. DIRCA. *Gen. pl.* 665.

- palustris.* 1. *Dirca.* *Willd. sp. pl.* 2. *p.* 424.
Icon. Duham. arb. 1. t. 212. *Amœn. acad.* 3. t. 1. *f.* 7.
 In shady and boggy woods: New York to Carolina.
 ½. March, April. *v. v.* A low shrub; flowers
 yellow; known by the name of *Leather-wood*, on
 account of the extraordinary toughness of its branches.

344. JEFFERSONIA. *Barton in act. philad. Mich. fl. amer.* 1. *p.* 236.

- diphylla.* 1. *Jeffersonia.* *Bart. l. c.*
J. Bartonis. *Mich. fl. amer.* 1. *p.* 237.
Podophyllum diphyllum. *Willd. sp. pl.* 2. *p.* 1141.
 On the side of hills, in rich soil, particularly limestone:
 Virginia and Tennessee; plentifully about Harper's
 Ferry and the Sweet-springs, Virginia. ¼. April,
 May. *v. v.* Flowers white, resembling those of
Sanguinaria; the capsule is covered with a lid, which
 opens with elasticity and scatters the ripe seeds.

345. PISTIA. *Gen. pl.* 1112.

- spathulata.* 1. *P. foliis in petiolum abrupte angustatis superne dilatatis rotundato-obtusis.* *Mich. fl. amer.* 2. *p.* 162.
 In Carolina. *Michaux.* +. Flowers white, axillary.

II. DIGYNIA.

346. CHRYSOSPLENIUM. *Gen. pl.* 763.

1. C. foliis oppositis subrotundis basi in petiolum attenuatis levissime crenatis.—*Willd. sp. pl.* 2. p. 638. *oppositifolium.*
Icon. Fl. dan. 365. *Engl. bot.* 490.
 On rocks in rivulets and springs, near cascades; in shady situations: Canada to Carolina. *U.* May. *v. v.*
 Flowers brownish-yellow. Probably a distinct species, if compared in the living plants.

III. TRIGYNIA.

347. POLYGONUM. *Gen. pl.* 677.* *Floribus axillaribus.*

1. P. floribus 8-andris 2-gynis, ochreis obtusis laceris membranaceis, foliis lineari-lanceolatis acutis margine revolutis carnosis, caule suffruticoso.—*Willd. sp. pl.* 2. p. 449. *marinum*
Icon. Cam. epit. 691.
 β. P. maritimum floribus carneis speciosis. *Clayt. n.* 497. *roseum.*
 On the sandy beach: Pennsylvania and Virginia. *h.* *U.*
Aug. v. v. A small prostrate evergreen plant, with white or rose-coloured flowers.
2. P. floribus 8-andris 3-gynis, foliis lanceolatis margine scabris, ochreis nervis remotis, caule procumbente herbaceo. *Willd. sp. pl.* 2. p. 449. *aviculare.*
Icon. Engl. bot. 1252. *Mart. fl. rust. t.* 91.
- α. P. foliis pusillis lanceolato-oblongis. *Mich. fl. amer.* 1. *angustifolium.*
p. 237.
- β. P. foliis lato-ovalibus obtusis quasi buxifolium. *Mich. latifolium.*
l. c.
 On pastures and road sides, in gardens, &c. common.
 ☉. April—Oct. *v. v.* Flowers sessile, white, very small.
3. P. floribus 3-andris 3-gynis, foliis lanceolatis, ochreis abbreviatis margine laceris, ramis interrupte multiflo- *ramosissimum.*

ris, caulibus stricte-ramosissimis striatis.—*Mich. fl. amer.* 1. p. 237.

P. erectum. *Willd. sp. pl.* 2. p. 450 ?

In cultivated grounds: Pennsylvania and Kentucky. ☉. June—Aug. *v. v.* Flowers on short pedicels, greenish-white.

tenue.

4. *P. pumilum*; foliis longe-linearibus strictis acuminatis, ochreis tubulosus apice villosis, caule gracili erecto ramoso acutangulo, floribus alternis subsolitariis.—*Mich. fl. amer.* 1. p. 238.

P. barbatum. *Walt. fl. car.* 131 ?

In sandy fields and pine-woods: Canada, New Jersey, and Carolina? ☉. July, Aug. *v. v.* Not above six inches high, very slender; flowers small, white.

** *Spica gracili.*

Hydropiperoides.

5. *P. floribus* 8 andris semi-3-gynis, foliis lanceolatis glabris, ochreis laxis glabris apice ciliatis maculatis, spicis filiformibus debilibus subcernuis, bracteis remotiuscule alternis.—*Mich. fl. amer.* 1. p. 238. *sub P. Hydropiperide.*

In inundated and exsiccated places; common: Canada to Carolina. ☉. Aug. Sept. *v. v.* Flowers white; taste and appearance of *P. Hydropiper*, but different in the flowers.

mite.

6. *P. floribus* 8-andris semi-3-gynis, foliis anguste lanceolatis subhirsutis, ochreis hirsutis promissa ciliatis, spicis linearibus, bracteis ciliatis subimbricatis.—*Pers. syn.* 1. p. 416.

P. hydropiperoides. *Mich. fl. amer.* 1. p. 239.

In inundated places, along ditches and ponds: Pennsylvania to Carolina. ☉. June—Sept. *v. v.* Flowers pale purple; leaves not acrid.

hirsutum.

7. *P. floribus* 8-andris semi-3-gynis approximatis, foliis sessilibus lanceolatis, pedunculo elongato distachyo, spicis linearibus, caule adscendente hirsuto.—*Walt. fl. car.* 132. *Mich. fl. amer.* 1. p. 239.

In low wet places and in ditches: Lower Carolina and Virginia. ☉. July—Sept. *v. v.*

virginianum.

8. *P. floribus* 5-andris 2-gynis inæqualibus, foliis lato-ovalibus, spicis longissime virgatis, floribus remotis.—*Willd. sp. pl.* 2. p. 442.

In shady woods: Canada to Florida. ♀. June, July. *v. v.*

*** *Spica confertiflora.*

9. *P. caule simplici monostachyo, foliis ellipticis planis petiolatis, bracteis unifloris 2-3-valvis.* *bistortoides.*
 In low grounds on the banks of the Missouri, called *Quamash-flats*. *M. Lewis*. ♀. June. *v. s.* Flowers white tinged with red.
Caulis teres, glaber. *Folia* elliptico-oblonga, in petiolum decurrentia, integerrima, plana, utrinque glabra, subtus glauca, superiora linearia, sessilia. *Spica* oblonga. *Bracteæ* membranaceæ, unifloræ, 2-3-valves; valvula exterior subrotunda, acuminata, carinata. *Calyx* subinfundibuliformis: laciniis oblongis acutis. *Filamenta* 7-8. corolla longiora. *Styli* 3.
10. *P. caule simplici monostachyo, foliis lanceolato-linearibus glabris margine revolutis, spica lineari, bracteis ovatis acuminatis.* *viviparum.*
β. subacaule.
 In Canada. ♀. June, July. *v. s.* in *Herb. Lambert*. This almost stemless variety I have seen in dried specimens coming from Lower Canada. The specimen in the collection of A. B. Lambert, Esq. came from Labrador.
11. *P. floribus 5-andris semi-2-gynis, spica cylindracea, ochreis truncatis glabris, foliis ovatis.* *Willd. enum.* *coccineum.*
 429.
P. amphibium. Mich. fl. amer. 1. p. 240.
- α. *P. foliis ovato-ellipticis obtusis.*
 β. *P. foliis ovato-oblongis acuminatis. P. Bistorta. Walt.* *aquaticum.*
fl. car. 131? *terrestre.*
- α. In lakes and ponds: Canada to Pennsylvania. β. In overflowed places on the Ohio and Mississippi. ♀. July, Aug. *v. v.* Flowers dark red.
12. *P. floribus 8-andris semdigynis, spicis oblongis, pedunculis hispidis, foliis lanceolatis, ochreis glabris nudisque, caule tumide-geniculato.—Willd. sp. pl.* 2. *pensylvanicum.*
 p. 448.
 On the edge of ponds and ditches, in overflowed grounds; common: New York to Carolina, and principally in the western counties. ☉. June—Aug. *v. v.* Flowers large, rose-coloured.
13. *P. floribus 6-andris semi-2-gynis, spicis ovato-oblongis erectis, pedunculis lævibus, foliis lanceolatis, ochreis glabriusculis apice ciliatis.—Willd. sp. pl.* 2. p. 446. *Persicaria.*
Icon. Fl. dan. 702. *Engl. bot.* 756.

In overflowed and wet places ; common. ☉. July, Aug. *v. v.* Flowers rose-coloured ; leaves generally marked with a black spot in shape of a half moon ; known by the name of *Ladies-thumb*.

orientale.

14. *P. floribus* 7-andris 2-gynis, foliis ovatis, caule erecto, ochreis hirtis hypocrateriformibus. *Willd. sp. pl.* 2. p. 448.

Icon. *Bot. mag.* 213. *Mill. ic.* 201.

Near gardens and in old fields : Virginia. ☉. July, Aug. *v. v.* Sometimes six feet high ; flowers large, crimson.

**** *Floribus paniculatis*.

articulatum.

15. *P. floribus* 8-andris 3 gynis, spicis paniculatis filiformibus, floribus solitariis pedunculatis, bracteis imbricatis truncatis, foliis linearibus, ochreis vaginalibus truncatis, caule herbaceo.—*Willd. sp. pl.* 2 p. 450.

In sandy barren fields : Canada to New Jersey. ☉. July, Aug. *v. v.* A handsome, delicate plant, about a foot high ; flowers rose-coloured, mixed with white.

polygamum.

16. *P. floribus* 8-andris 3-gynis, spicis paniculatis, floribus solitariis, calycis laciniis obovatis, foliis spathulatis, ochreis integris latere altero lanceolatis, caule fruticoso. *Vent. hort. cels.* 65.

Polygonella parvifolia. *Mich. fl. amer.* 2. p. 241.

In the barrens of Carolina. ♀. July. +. Flowers white. I strongly suspect this to be only a variety of *P. articulatum*, as the description and figure of *Ventenat* strongly indicate ; but the northern plant is certainly only an annual.

***** *Floribus subracemosis ; foliis basi incisis vel cordatis*.

sagittatum.

17. *P. floribus* 8-andris semi-3-gynis capitatis, foliis sagittatis, caule retrorsum aculeato.—*Willd. sp. pl.* 2. p. 453.

Icon. *Gmel. sib. 3. t.* 13. f. 2. *Hort. cliff. t.* 12. *Pluk. mant. t.* 398. f. 5.

In low wet meadows and ditches, in open situations : New York to Florida. ☉. June—Aug. *v. v.* Flowers white.

arifolium.

18. *P. floribus* 6-andris semi-2-gynis distinctis, spicis paucifloris, foliis hastatis, caule retrorsum aculeato.—*Willd. sp. pl.* 2. p. 453.

Icon. *Pluk. amalth. t.* 398. f. 3.

In low shady places, principally on the mountains :
New York to Carolina. ☉. July, Aug. *v. v.* Flowers
white, tinged with red.

19. *P. floribus* 8-andris 3-gynis, racemis paniculatis, foliis
cordato-sagittatis, caule erectiusculo inermi, seminum
angulis æqualibus.—*Willd. sp. pl.* 2. p. 455.

Icon. *Engl. bot.* 1044.

Common Buck-wheat, though not originally indigenous,
is frequently found in old fields and woods, as it were
in a wild state.

20. *P. floribus* 8-andris semi-3-gynis, foliis oblongis hastato-
cordatis, caule volubili angulato asperiusculo, laciniis
calycinis obtuse carinatis.—*Willd. sp. pl.* 2. p. 455.

Icon. *Fl. dan.* 744.

In cultivated grounds, along hedges : Pennsylvania to Ca-
rolina. ☉. July, Aug. *v. v.*

21. *P. floribus* 8-andris semi-3-gynis, foliis cordatis, stipulis
subacutis basi extrorsum serie ciliorum circumdatis,
caule anguloso prostrato aut scandente asperiusculo,
laciniis calycis obtuse carinatis.—*Mich. fl. amer.* 1.
p. 241.

In hedges and fields : Canada to New York. ☉. July.
v. v.

22. *P. floribus* 8-andris 3-gynis, foliis lato-cordatis, stipulis
truncatis nudis, caule volubili glabro, calycibus fruc-
tiferis tripteris.—*Willd. sp. pl.* 2. p. 456.

Icon. *Pluk. alm. t.* 177. *f.* 7. *Sloan. hist.* 1. t. 90. *f.* 1.

In shady woods : New York to Kentucky. ☿. July,
Aug. *v. v.* Stems generally red, climbing to a
considerable height.

348. BRUNNICHIA. *Gært. Gen. pl.* 777.

1. *Brunnichia*. *Willd. sp. pl.* 2. p. 731.

Rajania ovata. *Walt. fl. cur.* 247.

Icon. *Gært. carp.* 1. t. 45. *f.* 2.

In wet shady places, climbing among bushes : islands of
Georgia ; in Tennessee, &c. ☿. June, July. *v. v.*
A smooth vine ; leaves cordate, acuminate ; flowers
in one-sided racemes,

cirrrosa.

349. CARDIOSPERMUM. *Gen. pl.* 680.

1. *C. glabrum* ; foliolis inciso-lobatis, imparibus rhomboi-
deis.—*Willd. sp. pl.* 2. p. 467.

Icon. *Bot. mag.* 1049.

On the banks of the Mississippi, near Kaskaskias. ☉.
July. *v. v.* A small climbing plant; flowers small,
herbaceous.

350. SAPINDUS. *Gen. pl.* 681.

- Saponaria.* 1. *S. foliis glabris abrupte pinnatis, foliolis ovali-lanceolatis, rachi alata, fructibus sphæricis.*—*Willd. sp. pl.* 2. p. 468.

Icon. *Comm. hort. t.* 94.

On the sea-coast of Georgia and Carolina: probably introduced. ♀. *v. v. s. fl.* A small tree.

IV. TETRAGYNIA.

351. MYRIOPHYLLUM. *Gen. pl.* 1440.

- spicatum.* 1. *M. foliis omnibus pinnatis capillaceis, spica nuda interrupta, floribus masculis polyandris.*—*Willd. sp. pl.* 4. p. 406.

Icon. *Fl. dan.* 681. *Engl. bot.* 83.

In slow-flowing waters and ponds: Canada to New Jersey. ♀. July, Aug. *v. v.* A sub-aquatic small plant.

- verticillatum.* 2. *M. foliis pinnatis capillaceis, superioribus pectinato-pinnatifidis, floribus omnibus axillaribus verticillatis, inferioribus femineis, superioribus masculis aut hermaphroditis 8-andris.*—*Willd. sp. pl.* 4. p. 407.

Icon. *Fl. dan.* 1046. *Engl. bot.* 218.

In stagnant waters and ditches: Canada to Pennsylvania. ♀. July, Aug. *v. v.*

- scabratum.* 3. *M. foliis pinnatifidis, floribus omnibus verticillatis axillaribus, superioribus masculis 4-andris, inferioribus femineis, fructu 8-angulato.*—*Mich. fl. amer.* 2. p. 190. Potamogeton pinnatum. *Walt. fl. car.* 90.

In stagnant waters of Carolina and Georgia. ♀. July. *v. s.*

- heterophyllum.* 4. *M. foliis inferioribus capillaceo-pinnatis, superioribus floralibus ovalibus argute serratis, floribus masculis 6-andris.* *Mich. fl. amer.* 2. p. 191.

Potamogeton verticillatum. *Walt. fl. car.* 90.

In the waters of Carolina and Georgia. ♀. July. *v. s.*
in Herb. Walt.

IX. ENNEANDRIA.

I. MONOGYNIA.

352. LAURUS. *Cal.* 4—6-partitus. *Nectar.* glandulis 3. bisetis, germen cingentibus. *Filam.* interiora quorum 3. alterna sterilia glandulifera. *Drupa* 1-sperma. *Polygama.*
353. ERIOGONUM. *Cal.* subcampanulatus, 6-fidus. *Cor.* 0. *Sem.* 1. triquetrum, calyce tectum. *Involucrum* campanulatum.

II. TRIGYNIA.

354. PLEEA. *Cor.* 6-partita, patens. *Caps.* subrotundotrigona, 3-locularis. *Sem.* numerosa, oblonga, margini valvularum adnata. *Spica* spathis 1-floris.

I. MONOGYNIA.

352. LAURUS. *Gen. pl.* 698.

1. *L. foliis* perennantibus ovato-lanceolatis ramulisque glabris nitidis, racemis corymboso-paniculatis terminalibus, calycis patuli laciniis oblongis obtusis subæqualibus deciduis, baccis ovatis.—*Mich. fl. amer.* 1. p. 244. *Catesbyana.*

Laurus baccis atro-purpureis, pedunculis rubris insidentibus. *Clayt. n.* 485.

Icon. *Catesb. car.* 2. t. 28.

On the sea-coast of Georgia and Florida. ½. May. *v. v. s. fl.* Flowers white; berries black, on thick red peduncles.

- carolinensis*. 2. *L. foliis perennantibus ovali-lanceolatis opacis subtus glaucis, pedunculis simplicibus, fasciculo subcapitato paucifloro terminatis, calycis laciniis exterioribus duplo brevioribus, baccis globosis.*—*Mich. fl. amer.* 1. p. 245.
L. Borbonia. Hortul.
L. foliis acuminatis, flore albicante, baccis cæruleis, pediculis rubris insidentibus. *Clayt. ult.*
Icon. Catesb. car. 1. t. 63. *Mich. arb.*
- glabra. α. *L. foliis subtus glabris.*
pubescens. β. *L. foliis subtus pubescentibus.*
obtusa. γ. *L. foliis obovatis obtusis.*
In deep cedar and cypress swamps: Virginia to Louisiana. ♀. May. v. v. A small tree; flowers greenish-yellow; berries dark-blue, on red peduncles; known by the name of *Red Bay*: the wood is very valuable.
- Benzoin*. 3. *L. ramis virgatis sub floratione aphyllis, foliis deciduis cuneato-obovalibus subtus albicantibus subpubescentibus, floribus glomerato-umbellatis, gemmis pedicellisque glabris.*—*Willd. sp. pl.* 2. p. 485.
L. Pseudo-Benzoin. Mich. fl. amer. 1. p. 243.
Icon. Comm. hort. 1. t. 97.
In low grounds and on the banks of rivulets: Canada to Florida. ♀. March, April. v. v. A large shrub; flowers yellowish-green; berries scarlet; known by the name of *Spice-wood*.
- Diospyrus*. 4. *L. humilis, virgata, nudiflora; foliis deciduis oblongo-ovalibus subtus venosis subtomentosis, floribus glomerato-umbellatis, gemmis pedicellisque villosis.*—*Mich. fl. amer.* 1. p. 243.
L. melissæfolia. Walt. fl. car. 134.
Icon. Bot. mag. 1470.
In low grounds and near rivers: Virginia and Carolina. ♀. April. v. v. A low shrub, resembling the preceding very much; flowers greenish-yellow; berries small, scarlet or purple.
- geniculata*. 5. *L. ramis divaricatis flexuosis, foliis deciduis ovalibus obtusiusculis glabris, basi subtus barbatis, sub floratione nullis, umbellulis terminalibus paucifloris, antheris 4-locularibus.*—*Mich. fl. amer.* 1. p. 244. *Walt. fl. car.* 133.
L. æstivalis. Willd. sp. pl. 2. p. 484.
L. foliis lanceolatis enervibus annuis. Gronov. virg. 159.

Icon. *Bot. mag.* 1471.

In low grounds, near rivers and on islands : Carolina.

h. April. *v. v.* ; *v. s.* in *Herb. Gronov.* Flowers yellow ; berries globous, scarlet.

6. *L. foliis integris lobatisque.* *Willd. sp. pl.* 2. p. 485.

Sassafras.

Icon. *Trew ehret. t.* 69 & 70. *Catesb. car.* 1. t. 55.

Mich. arb. t.

In woods and along the banks of large rivers, frequent in old fields : Canada to Florida. h. March, April. *v. v.* Flowers yellow ; berries blue. This valuable tree, in respect to its medicinal properties, grows to a large size in the southern regions, where I have seen trees two feet in diameter ; but from Virginia northwards it decreases in size, until it becomes a mere straggling shrub.

353. ERIOGONUM. *Mich. fl. amer.* 1. p. 246.

1. *E. caule erecto dichotomo, florum fasciculis axillaribus solitariis sessilibus, calycis laciniis subrotundis obtusis tomentosis, foliis ad genicula caulis sessilibus ternis quaternisve cuneato-obovalibus supra glabris.*—*Mich. fl. amer.* 1. p. 246. *tomentosum.*

Icon. *Mich. l. c. t.* 24.

In pine-barrens of Carolina and Georgia. 24. July. *v. v.* The whole of this plant, excepting the upper side of the leaves, is covered with a close tomentum or woolly coat ; flowers from twelve to fifteen collected in a cup or involucre, white.

2. *E. caule simplici nudo, florum fasciculis terminalibus umbellatis pedunculatis, umbella involucreta, calycis laciniis oblongis acutis sericeo-lanatis, foliis radicalibus petiolatis lanceolato-oblongis supra villosis.* *sericeum.*

On the prairies of the Missouri. *Nuttall.* 24. July. *v. s.* in *Herb. Nuttall.* The whole of this plant, as well as the foregoing, is tomentose, but of a more loose texture, approaching to villous ; the calyx is covered with long white silky down ; flowers bright yellow. In the same country a third species has been discovered, of which I have not materials enough to give a description.

II. TRIYGYNIA.

354. PLEEA. *Mich. fl. amer.* 1. p. 247.

tenuifolia. 1. P. glaberrima; foliis angustissime ensiformibus sensim acutissimis; spicæ vaginis 1-floris.—*Mich. fl. amer.* 1. p. 248.

Icon. *l. c. t.* 25.

In open wet woods of Lower Carolina. *Michaux.* 4. v. s. Flowers of a yellowish-brown, the size of *Ornithogalum umbellatum*.

X. DECANDRIA.

I. MONOGYNIA.

* *Monopetalæ.*

355. ARBUTUS. *Cal.* 5-partitus. *Cor.* ovata : basi ore pellucida. *Bacca* supera, 5-locularis.
356. GAULTHERIA. *Cal.* 5-fidus, basi bibracteatus. *Cor.* ovata. *Caps.* 5-locularis, vestita calyce baccato.
357. VACCINIUM. *Cal.* 4-5-fidus. *Cor.* urceolata aut campanulata, 4-5-fida : laciniis reflexis. *Filam.* germini inserta. *Bacca* infera, 4-5-locularis, polysperma.
358. ANDROMEDA. *Cal.* 5-partitus. *Cor.* ovata : ore 5-fido, reflexo. *Caps.* supera, 5-locularis, valvulis dissepimento contrariis.
359. KALMIA. *Cal.* 5-partitus. *Cor.* hypocrateriformis : limbo subtus 5-corni, in quorum foveis antheræ incumbunt. *Caps.* 5-locularis.
360. EPIGÆA. *Cal.* 5-partitus, extus tribracteatus. *Cor.* hypocrateriformis. *Caps.* 5-locularis. *Recept.* 5-partita.
361. RHODODENDRON. *Cal.* 5-partitus. *Cor.* subinfundibuliformis, inæqualis. *Stam.* declinata. *Caps.* 5-locularis.
362. RHODORA. *Cal.* 5-dentatus. *Cor.* 3-petala. *Stam.* declinata. *Caps.* 5-locularis.

** *Polypetalæ ; Regulares.*

363. PYROLA. *Cal.* 5-partitus. *Pet.* 5. *Stylus* staminibus longior. *Caps.* 5-locularis, angulis dehiscens.
364. CHIMAPHILA. *Cal.* 5-partitus. *Pet.* 5. *Stigma* sessile crassum, orbiculatum, germine immerso.

- Antheræ* rostratæ, foramine subbivalvi dehiscentes.
Caps. 5-locularis, angulis dehiscent.
365. LEDUM. *Cal.* minimus, 5-dentatus. *Cor.* plana, 5-partita. *Caps.* 5-locularis, basi dehiscent.
366. AMMYRSINE. *Cal.* profunde 5-partitus. *Pet.* 5. *Stamina* exerta. *Caps.* 5-locularis, apice dehiscent.
367. CLETHRA. *Cal.* 5-partitus, persistens. *Pet.* 5. *Styl.* apice 3-fidus, persistens. *Caps.* 3-locularis, 3-valvis.
368. MYLOCARIUM. *Cal.* 5-dentatus. *Pet.* 5. *Stigm.* capitatum, trigonum, sessile. *Caps.* 3-4-alata, 3-locularis.
369. MONOTROPA. *Cal.* 0. *Pet.* 10. horum 5. exteriora basi excavata, mellifera. *Caps.* 5-valvis, polysperma.
370. DIONÆA. *Cal.* 5-phyllus. *Pet.* 5. *Stigm.* fimbriatum. *Caps.* 1-locularis, gibba, polysperma.
371. JUSSIÆA. *Cal.* 4-5-partitus, superus. *Pet.* 4-5. *Caps.* 4-5-locularis, oblonga, angulis dehiscent, calyce coronata. *Sim.* numerosa, minuta.
372. GYMNOCLADUS. *Cal.* tubulosus, 5-fidus. *Pet.* 5. æqualia, tubo inserta. *Stam.* non exerta. *Legumen* 1-loculare, intus pulposum. *Flores* racemosi. *Dioicus.*
373. ACACIA. *Cal.* tubulosus, 5-dentatus. *Pet.* 5. *Stam.* 5-10. exerta. *Legumen* 1-loculare, 2-valve. *Polygama.*
374. SCHRANKIA. *Cal.* tubulosus, 5-dentatus. *Pet.* 5. *Stam.* 8-10. exerta. *Siliqua* 4-valvis. *Polygama.*

*** *Polypetalæ; Irregulares.*

375. CASSIA. *Cal.* 5-phyllus. *Pet.* 5. subæqualia. *Anth.* supremæ 3. steriles, infimæ 3. rostratæ, in filamentis longioribus incurvis. *Legumen* membranaceum, 2-valve.
376. PODALYRIA. *Cal.* subbilabiat, 5-fidus. *Cor.* papilionacea, alæ vexilli longitudine. *Legumen* læve, ventricosum, polyspermum.
377. CERCIS. *Cal.* 5-dentatus, inferne gibbus. *Cor.* papilionacea: vexillo sub alis brevi. *Legumen.* *Folia* simplicia.
378. VIRGILIA. *Cal.* 5-dentatus, inferne gibbus. *Cor.* papilionacea: alæ vexillo breviores. *Legumen* compressum, polyspermum. *Folia* pinnata.

II. DIGYNIA.

379. HYDRANGEA. *Cal.* superus, 5-dentatus. *Pet.* 5. *Caps.* 2-locularis, 2-rostris, foramine inter cornua dehiscens.
380. SAXIFRAGA. *Cal.* 5-partitus. *Pet.* 5. *Caps.* 2-rostris, 1-locularis, polysperma.
381. TIARELLA. *Cal.* 5-partitus. *Pet.* 5. integra, calyci inserta. *Caps.* 1-locularis, 2-valvis : valvula altera majore
382. MITELLA. *Cal.* 5-fidus. *Pet.* 5. pinnatifida, calyci inserta. *Caps.* 1-locularis, 2-valvis : valvulis æqualibus.
383. SAPONARIA. *Cal.* tubulosus, nudus. *Pet.* 5. unguiculata. *Caps.* oblonga, 1-locularis.
384. DIANTHUS. *Cal.* cylindricus, longus, coriaceus, basi squamis 4—8. *Pet.* 5. unguiculata. *Caps.* cylindrica, 1-locularis, apice dehiscens.
385. SCLERANTHUS. *Cal.* 1-phyllus, cui *Stamina* inserta. *Cor.* O. *Sem.* 1—2. calyce inclusa.

III. TRIGYNIA.

386. CUCUBALUS. *Cal.* inflatus. *Pet.* 5. unguiculata, absque corona ad faucem. *Caps.* 3-locularis.
387. SILENE. *Cal.* cylindricus. *Pet.* 5. unguiculata, coronata ad faucem. *Caps.* 3-locularis.
388. STELLARIA. *Cal.* 5-phyllus, patens. *Pet.* 5. bipartita. *Caps.* ovata, 1-locularis, polysperma, apice 6-dentata.
389. ARENARIA. *Cal.* 5-phyllus, patens. *Pet.* 5. integra. *Caps.* 1-locularis, polysperma.

IV. TETRAGYNIA.

390. MICROPETALUM. *Cal.* 5-phyllus, patens. *Pet.* 5. minuta, integra aut nulla. *Stigm.* 4, sessilia. *Caps.* ovata, calyce longior, 4-valvis.

V. PENTAGYNIA.

391. SPERGULA. *Cal.* 5-phyllus. *Pet.* 5. integra. *Caps.* ovata, 1-locularis, 5-valvis.
392. CERASTIUM. *Cal.* 5-phyllus. *Pet.* 5. bifida aut

- emarginata. *Caps.* 1-locularis, apice dentatim dehiscent.
393. AGROSTEMMA. *Cal.* 1-phyllus, coriaceus. *Pet.* 5. unguiculata: limbo obtuso, indiviso. *Caps.* 1-locularis.
394. OXALIS. *Cal.* 5-phyllus. *Pet.* 5. unguibus connexa. *Stamina* inæqualia, 5. breviora, exteriora basi connata. *Caps.* angulis elastice dehiscent, 5-gona. *Sem.* subarillata.
395. PENTHORUM. *Cal.* 5-fidus. *Pet.* 0. aut 5. *Caps.* 5. cuspidata, 5-locularis.
396. SEDUM. *Cal.* 5-fidus. *Pet.* 5. *Squamæ* nectariferæ 5. ad basin germinis. *Caps.* 5.

VI. DECAGYNIA.

397. PHYTOLACCA. *Cal.* 0. *Pet.* 5. calycina. *Bacca* supera, 10-locularis, 10-sperma.

I. MONOGYNIA.

355. ARBUTUS. *Gen. pl.* 750.

laurifolia.

1. *A. arborea*; foliis oblongis utrinque acuminatis acute serratis glabris, racemis axillaribus secundis sessilibus solitariis. *Willd. sp. pl.* 2. p. 617.

In North America. *Linn. suppl.* 238. ♀. +. What part of North America this tree comes from, I am unacquainted with; probably from the west coast, and very likely may be found on the Columbia, as well as the foregoing species.

Nothing can be found in the Linnæan Herbarium respecting the plant. *J. E. Smith.*

Menziesii.

2. *A. arborescens*; foliis lato-ovalibus integerrimis glabris, petiolis longis, racemis axillaribus et terminalibus paniculatis densifloris.

On the north-west coast of America. *A. Menzies.* ♀. v. s. in *Herb. Banks.*

tomentosa.

3. *A. frutescens*; ramis hispidis, foliis ovalibus acutis basi subcordatis subtus albido-tomentosis, petiolis brevibus, pedunculis axillaribus longitudine foliorum subcapitato-racemifloris, floribus campanulato-urceolatis bracteatis.

Gualtheria serpyllifolia, p. 283.

Ceratiola cricoides, p. 21.

1

2

3

Hamiltonia elaefera, p. 173.

On the north-west coast of America. *A. Menzies*. $\frac{1}{2}$.
v. s. in Herb. Banks.

4. *A. caulibus procumbentibus, foliis obovatis acutis rugosis serratis, racemis terminalibus.*—*Willd. sp. pl. 2. p. 618.* *alpina.*

Icon. *Fl. dan. 73. Engl. bot. 2030.*

In Canada. $\frac{1}{2}$. May, June. *v. v.* Flowers white; berries black.

5. *A. caulibus procumbentibus, foliis cuneato-obovalibus integerrimis margine convexis coriaceis, floribus fasciculatis, baccis 5-spermis.*—*Willd. sp. pl. 2. p. 618.* *Uva ursi.*

Icon. *Schmidt arb. t. 138. Fl. dan. t. 33. Engl. bot. 714.*

In the pine-barrens of New Jersey, and in mountainous and rocky situations of Canada and New England.

$\frac{1}{2}$. June. *v. v.* Flowers pale red; berries scarlet.

On the plains of the Mississippi the Indians smoke the leaves under the name of *Sacacommis*, and consider them of great medicinal virtue.

356. GAULTHERIA. *Gen. pl. 749.*

1. *G. caule procumbente, ramis erectis, inferne nudis superne confertim foliosis, foliis obovatis basi acutis tenuissime ciliato-dentatis, floribus paucis terminalibus nutantibus.*—*Willd. sp. pl. 2. p. 616.* *procumbens.*

Icon. *Bot. rep. 116. Duham. arb. 1. t. 113.*

In dry woods, on mountains, and in sandy plains: Canada to Virginia. $\frac{1}{2}$. May. *v. v.* A little shrubby plant, resembling seedling plants of *Kalmia latifolia*; flowers white; berries red, eatable, and known by the name of *Partridge-berries*. The leaves, if properly cured, make a most excellent tea, for which reason it is likewise known by the name of *Mountain-tea*.

2. *G. caule repente hispido, foliis subrotundo-ovalibus acutis, floribus solitariis axillaribus subsessilibus octandris, corollis brevi-campanulatis.* *Serpyllifolia.*

Vaccinium hispidulum. Willd. sp. pl. 2. p. 355.

Arbutus filiformis, Lam. encycl. 1. p. 228.

Icon. *Michx. fl. amer. 1. t. 23.*

In sphagnous swamps, particularly where cedars and other evergreens abound: Canada to Pennsylvania. $\frac{1}{2}$.

April, May. *v. v.* A small creeping plant; berries white, very sweet, and agreeable to eat.

3. *G. erecta fruticosa; foliis ovatis subcordatis serrulatis,* *Shallon.*

racemis secundis bracteatis, pedicellis medio bibracteolatis.

On the falls of Columbia and near the Western Ocean.

M. Lewis. On the North-west coast. *A. Menzies*.

h. May, June. *v. s. in Herb. Lewis. nec non Banks.*

Frutex sempervirens. Rami teretes, verrucosi, glabri: juniores ferrugineo-pubescentes. Folia alterna, brevissime petiolata, ovata vel lato-ovalia, interdum basi subcordata, abrupte acuminata, serrulata, coriacea, utrinque glabra, subtus nervis venisque reticulatis prominentibus. Racemi in apice ramulorum axillares et terminales, simplices, ferrugineo-pubescentes. Flores secundi, bracteati, albi, rore rubro pubescentes. Pedicelli solitarii, medio bibracteolati. Bracteæ lanceolatae. Corolla urceolata, limbo subclauso, 5-dentata. Bacca subglobosa, acuta, carnosa, purpurea, extus hirsuta, intus semi-5-valvis: loculis polyspermis. Semina ovato-subtriquetra.

This elegant evergreen shrub is in high esteem among the natives, on account of its berries, which they call *Shallon*, and which name I have adopted here. Mr. A. Menzies, who was the first discoverer of this shrub, observes one peculiarity, which is its growing under the shade of close pine forests, where scarcely any other plant thrives: this makes it so much more desirable for our plantations, as a highly ornamental shrub, since but few will bear such a situation. I was first inclined to take this species to belong to *Arbutus*, having only seen imperfect specimens; but through the liberal communication of Mr. A. Menzies, I have been enabled to class it more properly with this genus, though it deviates from both in some respects.

357. VACCINIUM. *Gen. pl.* 658.

† *Foliis deciduis.*

* *Corollis campanulatis.*

stamineum.

1. *V. foliis ovalibus acutis integerrimis subtus glaucis, pedicellis solitariis axillaribus filiformibus, corollis patulo-campanulatis, laciniis oblongis acutis, antheris exsertis, dorso aristatis, baccis pyriformibus.*—*Willd. sp. pl.* 2. p. 349.

Icon. Pluk. alm. t. 339. *f.* 3. *lona.*

In dry woods; common: New England to Florida.

h. May, June. *v. v.* About two feet high; flowers white: berries green, or white when per-

fectly ripe. In the mountains they are known by the name of *Deer-berries*.

2. *V. foliis ovalibus seu obovatis acutis integerrimis subtus glaucis, nervis venisque pubescentibus, pedicellis solitariis axillaribus filiformibus, corollis patulo-campanulatis, laciniis ovatis subacuminatis, antheris exsertis dorso aristatis, baccis subglobosis.*—*Willd. sp. pl. 2. p. 350 ?*

album.

Icon. Bot. rep. 263. V. stamineum.

In dry sandy woods: New Jersey to Carolina. $\frac{1}{2}$. April, May. *v. v.* Flowers white, larger than No. 1; berries white or greenish-white. I am not certain whether this is the *V. album* of Linnæus or not. As I never could find any certainty about the authentic species, I venture to adopt this species for it. In the Banksian Herbarium it is under the name of *V. elevatum*.

3. *V. foliis petiolatis obovalibus utrinque acutis mucronatis glanduloso-serrulatis, supra nitidis, reticulato-venosis, subtus subpubescentibus, racemis bracteatis nutantibus, pedicellis axillaribus solitariis filiformibus, corollis cylindrico-campanulatis; laciniis acutis, antheris inclusis dorso aristatis.*—*Mich. fl. amer. 1. p. 230.*

arborescens.

V. diffusum. Ait. kew. 2. p. 11. Herb. Banks.

In dry woods, on the rocky banks of rivers: North Carolina to Florida. $\frac{1}{2}$. May, June. *v. v.* A large shrub, sometimes twenty feet high, very elegant: flowers white, tinged with red; berries globular, black, almost dry.

4. *V. ramulis, foliis racemisque hispidiusculis atomis resinosis irroratis, foliis obovato-oblongis basi acutis mucronatis integerrimis concoloribus, racemis bracteatis, pedicellis brevibus axillaribus subsolitariis medio bibracteatis, corollis campanulatis, laciniis rotundatis, antheris inclusis.* *Bot. mag. 1106. Bot. rep. 112.*

dumosum.

V. hirtellum. Ait. kew. ed. 2. v. 2. p. 357. Herb. Banks.

V. frondosum. Mich. fl. amer. 1. p. 230.

In dry sandy woods, particularly pine-forests: New Jersey to Florida. $\frac{1}{2}$. June, July. *v. v.* A low shrub; flowers large, white; berries black, globular.

5. *V. foliis obovato-oblongis obtusiusculis muticis integerrimis glabris subtus glaucis copiose atomis resinosis irroratis, racemis laxis bracteatis, pedicellis longis fili-*

frondosum.

formibus bracteolatis, bracteis linearibus, corollis ovato-campanulatis, laciniis acutis, antheris inclusis.—
Willd. sp. pl. 2. p. 352.

V. glaucum. Mich. fl. amer. 1. p. 231.

Icon. Bot. rep. 140.

lanceolatum. *β. V. foliis lanceolatis utrinque acutis.*

V. venustum. Ait. kew. 2. p. 11. Herb. Banks.

In open woods, sandy soil : New Jersey to Carolina. *h.*
May, June. *v. v.* ; *v. s. in Herb. Banks.* About
three feet high ; flowers small, almost globular, white ;
berries large, blue, globular, eatable ; called by the
country people *Blue-tangles*.

pallidum. 6. *V. foliis ovatis acutis serrulatis glabris, racemis bracteatis, corollis cylindraceo-campanulatis. Ait. kew. 2. p. 10.*

In North America. *Aiton. h.* May, June. *+*. A
doubtful species. I have not been able to ascertain it,
even after a strict examination of the Banksian Her-
barium.

**** Corollis urceolatis ; Antheris inclusis.**

|| Floribus racemosis seu fasciculatis.

resinosum. 7. *V. foliis tenuibus petiolatis oblongo-ovalibus plerumque obtusis muticis integerrimis subtus atomis resinosis irroratis, racemis lateralibus secundis, pedicellis brevibus subbracteolatis, corollis ovato-conicis 5-gonis.— Willd. sp. pl. 2. p. 352.*

Andromeda baccata. Wangh. amer. 2. t. 30. f. 69.

viridescens. *α. V. corollis luteo-viridescentibus.*

rubescens. *β. V. corollis rubescentibus. Bot. mag. 1288.*

lutescens. *γ. V. foliis lanceolatis, corollis rubro-lutescentibus.*

V. parviflorum. Bot. rep. 125.

In woods and mountains ; frequent : Canada to Carolina.
h. May, June. *v. v.* From two to four feet high ;
berries black, eatable.

corymbosum. 8. *V. ramis floriferis subaphyllis, foliis oblongo-ovalibus utrinque acutis mucronatis subintegerrimis, junioribus utrinque pubescentibus subtus subtomentosis, adultis supra glabris, subtus nervis venisque pubescentibus, racemis brevibus sessilibus squamoso-bracteatis, corollis cylindraceo-ovatis, calycibus erectis, stylo sub-exerto.—Willd. sp. pl. 2. p. 351.*

V. disomorphum. Mich. fl. amer. 1. p. 231.

V. album. Lam. encycl. 1. p. 73.

In swamps and wet woods : Canada to Virginia. *h.*
June. *v. v.* ; *v. s. in Herb. Banks.* A shrub, rising

sometimes to the height of seven or eight feet ; flowers white, sometimes tinged with red ; berries black, insipid.

9. *V. ramis floriferis aphyllis, foliis oblongis utrinque acutis integerrimis glabris nervis subtus subpubescentibus, racemis confertis bracteatis, corollis cylindraceis, laciniis acutis, calycibus reflexis, stylo incluso.*—*Willd. sp. pl. 2. p. 353. Ait. kew. 2. p. 12.*

amœnum.

V. disomorphum var. *Mich. fl. amer. 1. p. 231.*
Icon. Bot. rep. 138.

In low grounds and swamps : New Jersey to Virginia. $\frac{1}{2}$. May, June. *v. v.* ; *v. s. in Herb. Banks.* A tall shrub with red twigs ; flowers large, white with a red tinge ; berries black, insipid. This species has a number of varieties in size, shape, and colour.

10. *V. ramis floriferis elongatis subaphyllis, foliis lanceolato-oblongis utrinque acutis serrulatis glabris, racemis sessilibus corymbosis bracteatis, corollis cylindraceis, fauce coarctato, laciniis brevissimis, calycibus reflexis, stylo incluso.*—*Willd. sp. pl. 2. p. 353. Ait. kew. 2. p. 12.*

virgatum.

Icon. Bot. rep. 181.

In swamps of Virginia and Carolina. $\frac{1}{2}$. May, June. *v. v.* A middle-sized shrub ; flowers tinged with crimson, very handsome.

11. *V. foliis oblongis acutis serrulatis glabris, racemis aggregatis terminalibus corymbosis bracteatis, pedicellis longis nutantibus, corollis cylindraceis, laciniis erectis brevibus, calycibus acutis erectis, stylo subexerto.*—*Willd. sp. pl. 2. p. 351. Ait. kew. 2. p. 11.*

fuscatum.

V. formosum. Bot. rep. 97.

- β . *V. foliis angusto-lanceolatis utrinque acuminatis.*

angustifolium.

In swamps of Lower Carolina and Georgia. $\frac{1}{2}$. May, June. *v. v.* ; *v. s. in Herb. Banks.* An elegant small shrub ; flowers red and white striped ; calyx brown.

12. *V. foliis sessilibus cuneato-lanceolatis subserrulatis venosis pubescentibus, fasciculis sessilibus, pedicellis brevissimis, calycibus acuminatis, corollis ovatis fauce valde coarctatis, stylo exerto.*—*Mich. fl. amer. 1. p. 232.*

galexans.

In shady woods and swamps : Virginia and Carolina. $\frac{1}{2}$. May, June. *v. v.* Flowers small, yellowish-white ; berries small, globular, black.

ligustrinum. 13. *V. ramis angulatis, foliis subsessilibus erectis lanceolatis mucronatis serrulatis venosis pubescentibus, fasciculis gemmaceis sessilibus, pedicellis vix ullis, corollis oblongiuscule-ovatis.*—*Willd. sp. pl.* 2. p. 352. *Mich. fl. amer.* 1. p. 233.

In dry woods : Pennsylvania to Virginia ; common on the mountains. $\frac{1}{2}$. May, June. *v. v.* An upright straight shrub ; flowers purplish-red, berries black. This species varies extremely in the shape and size of the leaves.

tenellum. 14. *V. ramis angulatis viridibus, foliis sessilibus ovato-lanceolatis mucronatis serrulatis utrinque lucidis, fasciculis confertifloris subterminalibus sessilibus, corollis ovatis.*—*Willd. sp. pl.* 2. p. 353. *Ait. kew.* 2. p. 12.

V. pensylvanicum. *Lam. encycl.* 1. p. 72. *Mich. fl. amer.* 1. p. 232.

On dry hills, in gravelly soil : New England to Virginia. $\frac{1}{2}$. May. *v. v.* ; *v. s.* in *Herb. Banks.* A low, very branching shrub ; flowers pale red ; calyx green ; berries large, blueish-black, extremely sweet and agreeable to eat. The mountains of Pennsylvania produce an immense variety of this species, in size, and shape of the fruit, leaves and flowers.

||| *Floribus solitariis.*

uliginosum. 15. *V. foliis parvis obovatis obtusis integerrimis supra glabris subtus venosis pubescentibus glaucisque. floribus subsolitariis, corollis brevi-urceolatis.*—*Willd. sp. pl.* 2. p. 350. *Mich. fl. amer.* 1. p. 235.

Icon. Fl. dan. 231. *Engl. bot.* 581.

In bogs of the more northern regions of America. $\frac{1}{2}$. April, May. *v. s.* From one to two feet high ; flowers rose-coloured ; stamens from eight to ten ; berries blueish-black, eatable.

myrtilloides. 16. *V. foliis angusto-lanceolatis membranaceis integerrimis subtus juxta nervos et margine pubescentibus, floribus sparsis subsolitariis brevissime-pedicellatis.*—*Mich. fl. amer.* 1. p. 234.

V. angustifolium. *Willd. sp. pl.* 2. p. 351. *Ait. kew.* 2. p. 11.

In Canada about Hudson's Bay and Labrador. $\frac{1}{2}$. April, May. *v. s.* in *Herb. Banks.* Berries large, blueish-black, known by the name of *Bluets*.

17. *V. pusillum*, cespitosum, glaberrimum; foliis cuneato-obovalibus rotundato-obtusis conspicue serratis membranaceis, floribus rameis solitariis subsessilibus, corolla breviter pedicellata. *Mich. fl. amer.* 1. p. 234. *cespitosum*.

In the more northern regions, particularly about Hudson's Bay. *Michaux.* $\frac{1}{2}$. A little shrub not above three inches high; berries black. Among the specimens of *A. Menzies* from the north-west coast in the Banksian Herbarium is one very like the present species, but apparently evergreen.

++ *Foliis sempervirentibus*.

* *Corollis campanulatis*.

18. *V. humile*; caulibus repentibus, ramulis erectis, foliis obovatis emarginatis revolutis subserrulatis supra lucidis, subtus punctatis, racemis terminalibus nutantibus, corollis cylindrico-campanulatis.—*Willd. sp. pl.* 2. p. 354. *Mich. fl. amer.* 1. p. 229. *Vitis Idæa*.

* *Icon. Fl. dan.* 40. *Engl. bot.* 593.

On rocks near the sea-coast: Canada to New England.

$\frac{1}{2}$. May, June. *v. v.* A low shrub; flowers pale red, generally 4-cleft with four stamina; berries red, acid. The American plant is more robust than the European, and the leaves are considerably larger.

19. *V. repens*, glaberrimum; foliis petiolatis ovalibus lucidis revolutis rariter denticulatis, fasciculis axillaribus subsessilibus paucifloris, corollis subgloboso-campanulatis brevissime 5-denticulatis, antheris dorso muticis. *Mich. fl. amer.* 1. p. 229. *myrtifolium*.

In Carolina. *Michaux.* $\frac{1}{2}$. +. Berries small, black.

20. *V. diffusum*; ramis adscendentibus laxis, foliis oblongo-lanceolatis utrinque acutis serratis rigidis glabris, racemis terminalibus corymbosis bracteatis paucifloris, floribus nutantibus, calycibus adpressis, corollis patulo-campanulatis profunde acuteque 5-dentatis:—*Bot. rep.* 105. *crassifolium*.

In Carolina. *Fraser.* $\frac{1}{2}$. May, June. *v. v.* Flowers pink red, very ornamental.

** *Corollis urceolatis*.

21. *V. erectum*, ramosissimum; ramis distichis, foliis nitidis obovato-ellipticis utrinque acutis glabris serratis, racemis terminalibus corymbosis bracteatis nutantibus, corollis cylindræis.—*Bot. rep.* 480. *nitidum*.

In Carolina. η . May, June. *v. v.* Flowers pink-red.
This species approaches near to No. 20, but differs in the shape of the corolla materially; it is also near to the following, but sufficiently different.

- myrsinitis*. 22. *V. erectum, ramosissimum, microphyllum*; foliis sessilibus ovalibus mucronatis subserrulatis supra lævigatis lucidis subtus subhirsutis scabro-punctatis, fasciculis gemmaceis terminalibus lateralibusque, corollis oblongo-ovatis.—*Mich. fl. amer.* 1. p. 233.
- lanceolatum*. β . *V. foliis lanceolatis utrinque acutis.*
- obtusum*. γ . *V. foliis subrotundo-obovatis.*
In dry sandy woods: Carolina and Florida. η . May, June. *v. v.* A beautiful little shrub; calyx scarlet; corolla purple.
- luxifolium*. 23. *V. pumilum*; foliis obovatis crenato-dentatis glabris; fasciculis congestis subsessilibus axillaribus et terminalibus, corollis brevi-ovatis, filamentis glandulosis, stigmatibus capitato.—*Bot. rep.* 4. *Bot. mag.* 928.
V. brachycerum. *Mich. fl. amer.* 1. p. 234.
In dry woods, on limestone rocks: western parts of Virginia, near Winchester and the Sweet-springs. η . June. *v. v.* A handsome little shrub; flowers white, delicately tinged with red.
- ovatum*. 24. *V. foliis petiolatis ovatis acutis revolutis serratis glabris coriaceis, racemis axillaribus et terminalibus bracteatis brevibus, corollis cylindræis, calycibus acutis.*
On the Columbia river. *M. Lewis.* On the north-west coast. *Menzies.* η . May. *v. s. in Herb. Banks.*
- obtusum*. 25. *V. repens*; foliis parvis ovalibus utrinque rotundato-obtusis mucronatis integerrimis glabris coriaceis, pedunculis axillaribus solitariis unifloris.
On the north-west coast. *Menzies.* η . *v. s. s. fl. in Herb. Banks.*

358. ANDROMEDA. *Gen. pl.* 747.

* *Foliis perennantibus.*

- tetragona*. 1. *A. foliis imbricatis carinatis margine nudis, pedunculis axillaribus solitariis filiformibus unifloris, corollis nutantibus campanulatis.*—*Willd. sp. pl.* 2. p. 607.
Icon. Pall. fl. ross. 2. t. 73. f. 4. *Fl. lapp. t.* 1. f. 4.
In Canada; Labrador. *Colmaster.* On the north-west coast. *Nelson.* η . May, June. *v. s.* Flowers white.

2. *A. foliis imbricatis subulatis glabris, pedunculis solitariis terminalibus unifloris, corollis nutantibus globoso-campanulatis.*—*Willd. sp. pl. 2. p. 608.*
Icon. Fl. dan. 10. Pall. fl. ross. 2 t. 73. f. 2.
 On the north-west coast. *Nelson. h. May. v. s. in Herb. Banks.* A small creeping shrub, resembling a moss; flowers white, tinged with red. *hypnoides.*
3. *A. foliis lineari-lanceolatis convexis revolutis subtus albicanti-glaucis supra glauco-canescenibus, floribus aggregatis terminalibus. corollis subglobosis, antheris versus apicem aristatis.*—*Willd. sp. pl. 2. p. 610.*
Mich. fl. amer. 2. p. 254. *polifolia.*
- α . *A. foliis lanceolato-linearibus, laciniis calycinis oblongis rubris.* *Ait. kew. 2. p. 68.* *angustifolia.*
Icon. Pall. fl. ross. 2. p. 53. t. 70. f. B.
- β . *A. foliis oblongis, corollis ovatis incarnatis, laciniis calycinis patentibus ovatis albis interdum apice rubicundis.* *Ait. kew. 2. p. 68.* *latifolia.*
 In bogs of Canada and Labrador, and on the borders of mountain-lakes, in sphagnum grounds: New York and Pennsylvania. *h. June. v. v.* A small shrub, about one foot high; flowers white, tinged with red. I strongly suspect the variety α . to be a distinct species, which might be called *A. rosmarinifolia.*
4. *A. foliis lanceolato-oblongis obtusiusculis obsolete serrulatis subrevolutis squamoso-punctatis subtus ferrugineis, racemis terminalibus foliosis secundis, pedicellis brevibus solitariis axillaribus. calycibus acutis basi bibracteatis, bracteis lato-ovatis acuminatis, corollis oblongo-cylindraceis.* *Willd. sp. pl. 2. p. 614.* *calyculata.*
Icon. Pall. fl. ross. 2. p. 53. t. 71. f. 1.
 In bogs and swamps; frequent, particularly on the mountains: Canada to Virginia. *h. April, May. v. v.* Flowers white.
5. *A. foliis lineari-lanceolatis acutis margine subundulato-revolutis squamoso-punctatis subtus subferrugineis, racemis terminalibus foliosis secundis, pedicellis brevibus solitariis axillaribus, calycibus acuminatis basi bibracteatis, bracteis minutis acutis, corollis oblongo-ovalibus.* *angustifolia.*
A. calyculata γ . *angustifolia. Ait. kew. 2. p. 70.*
 In open swamps: Carolina and Georgia. *h. April, May. v. v.; v. s. in Herb. Lambert.* This species approaches nearly to the preceding, but is sufficiently distinct to admit it to be more than a variety.

ferruginea.

6. *A. fruticosa*; ramis subflexuosis, foliis coriaceis distantibus longe petiolatis obovatis plerumque obtusis integerrimis planis margine revolutis subtus squamoso-farinosis reticulato-venosis, pedicellis aggregatis axillaribus simplicibus unifloris paucis furfuraceo-ferrugineis, corollis subglobosis, antheris muticis.

A. ferruginea. Walt. fl. car. 138.

A. ferruginea β . *fruticosa. Mich. fl. amer.* 1. p. 252.

Icon. *Vent. malm.* 80.

In the pine-woods of Georgia and Florida. γ . June.

v. v. A shrub from three to five feet high. Flowers small, white inside and ferruginous outside.

rigida.

7. *A. arborescens*; ramis strictis, foliis coriaceis rigidis confertis brevi-petiolatis cuneato-lanceolatis acutis integerrimis convexis margine revolutis subtus squamoso-tomentosis subaveniis, pedicellis aggregatis axillaribus simplicibus unifloris numerosis furfuraceo-ferrugineis, corollis subglobosis, antheris muticis.

A. ferruginea. Willd. sp. pl. 2. p. 609. *Ait. kew.* 2. p. 67.

A. ferruginea α . *arborescens. Mich. fl. amer.* 1. p. 252.

In barren sandy woods: Carolina to Florida. γ . April.

v. v. A shrub almost twenty feet high, or sometimes forming a small tree: though nearly allied to the former species, their habits, and particularly their flowering time, differ so materially, that I have always considered them to be distinct species.

nitida.

8. *A. glaberrima*; ramis subtriquetris, foliis coriaceis ovalibus acuminatis integerrimis lævigatis, costa marginem deflexum percurrente, fasciculis axillaribus, corollis cylindraceis, laciniis calycis elongatis linearibus coloratis, antheris basi bicorniculatis.—*Mich. fl. amer.* 1. p. 252.

A. coriacea. Willd. sp. pl. 2. p. 613. *Ait. kew.* 2. p. 70.

A. lucida. Lam. encycl. 1. p. 157.

A. marginata. Duham. arb.

A. mariana. Jacq. ic. 3. t. 465.

Icon. *Bot. mag.* 1095.

In the sandy forests of Carolina and Florida. γ . June,

July. *v. v.* A handsome small shrub; flowers pale red; the calyx long, of a dark-red colour; leaves marked with very fine punctures.

axillaris.

9. *A. foliis oblongo-ovalibus basi acutis brevi-acuminatis cartilagineo-serratis lucidis glabris coriaceis, racemis*

spicatis axillaribus sessilibus squamoso-bracteatis undique confertifloris, corollis cylindraceo-ovatis, antheris muticis.—*Willd. sp. pl.* 2. p. 613. *Ait. kew.* 2. p. 69.

β. *A. foliis linearilanceolatis longissimis.*

longifolia.

On the mountains of Virginia to Georgia. ♀. May, June. *v. v.* Flowers in short spikes, white; capsules depressed, globular.

10. *A. foliis petiolatis ovato-oblongis basi rotundatis superne sensim angustatis acuminatis subserrulatis, serraturis adpresso-spinulosis glabris coriaceis, racemis subspicatis axillaribus sessilibus squamoso-bracteatis secundis laxiusculis, corollis brevibus cylindraceo-ovatis, antheris muticis.*

spinulosa.

A. Catesbæi. Walt. fl. car. 137. *Willd. sp. pl.* 2. p. 613.

In Lower Carolina. ♀. May, June. *v. v.* Resembles the foregoing one in several respects. The figure of *Catesb. car.* 2. t. 43. is so very slightly done, that there can be no reference made to it, and probably belongs to *A. racemosa*.

11. *A. glaberrima; foliis ovato-lanceolatis superne sensim angustatis acuminatis integerrimis seu inæqualiter serratis glabris nitidis reticulato-venosis coriaceis, racemis axillaribus brevissimis corymbosis nudiusculis, floribus pedicellatis nutantibus, corollis cylindraceo-ovatis, antheris muticis postice gibbis.*—*Willd. sp. pl.* 2. p. 613. *Ait. kew.* 2. p. 70.

acuminata.

A. lucida. Jacq. ic. 1. t. 79.

A. populifolia. Lam. encycl. 1. p. 159.

A. reticulata. Walt. fl. car. 137.

A. formosissima. Bartr. catal.

A. laurina. Mich. fl. amer. 1. p. 253.

Icon. *Smith exot. bot.* 89. *bona. Jacq. ic.* 79. *mala.*

In sandy swamps of Georgia and Florida. ♀. July. *v. v.* Flowers white, in great abundance; which gives this shrub a fine appearance. The stem is hollow inside, and is used by the natives for making their pipe-stems of it, from which the name *Pipe-stem wood*.

12. *A. glaberrima; foliis oblongo-ovatis acutis tenuissime serrulatis adpresso-ciliatis glabris coriaceis, racemis secundis axillaribus et terminalibus congesto-paniculatis, pedicellis bibracteatis.*

floribunda.

In the mountains of Georgia. *Lyon.* ♀. May, June.

v. v.; *v. s.* in *Herb. Lyon*. Flowers clear white, in great abundance.

**** *Foliis deciduis.***

- mariana.* 13. *A. foliis ovalibus utrinque subacutis integerrimis glabris subcoriaceis subtus pallidioribus, ramis floriferis subaphyllis, pedunculis fasciculatis, corollis ovato-cylindraceis, calycibus foliosis, antheris muticis, capsula conoidea* — *Willd. sp. pl. 2. p. 609. excl. syn. Jacquini.*
- angustifolia.* β . *A. foliis angusto-lanceolatis.*
Icon. Pluk mant. t. 448.
 In woods and dry swamps, particularly in sandy soil: New England to Florida. γ . May — Aug. *v. v.* A low shrub; flowers large, white, sometimes tinged with red. This plant has a number of very striking varieties.
- speciosa.* 14. *A. foliis ovalibus obtusis mucronatis crenatis serratisve reticulato venosis, ramis floriferis denudatis aggregato-racemifloris, corollis campanulatis, antheris apice geminatis 4-aristatis* — *Michx. fl. amer. 1. p. 256.*
- nitida.* α . *A. foliis oblongo-ovatis serratis utrinque viridibus.*
A. cassinæfolia Vent. malm. 79.
- pulverulenta.* β . *A. foliis rotundato-ovatis remote crenatis ramisque albo pulverulentis.*
A. pulverulenta. Bartr. it. 476. Bot. mag. 667.
A. cassinæfolia β . Vent. hort. cels. 60.
A. ovata. Solander mss. in mus. Banks.
 In swamps of North Carolina. γ . June. *v. v.* A very ornamental little shrub; flowers large, white. I certainly must coincide with Michaux's idea of *A. pulverulenta* being only a variety, as I very frequently have seen intermediate varieties, and even had the trace of both on one plant.
- racemosa.* 15. *A. foliis ovali-lanceolatis acutis serrulatis membranaceis glabris, spicis terminalibus secundis elongatis simplicibus raciosisve, bracteis linearibus acutis, corollis cylindraceis, calycibus acutis basi bibracteatis, antheris apice geminatis quadriaristatis.* — *Willd. sp. pl. 2. p. 612.*
A. paniculata. Walt. fl. car. 138.
A. racemis simplicibus, foliis lanceolatis alternis, &c. Gronov. virg. 67.
 In bogs and swamps; frequent: Canada to Florida. γ . June, July. *v. v.* A middle-sized shrub, which may

be reckoned one of the finest in North America, not only for the graceful appearance of its flowers, but the fine odour they have.

16. *A. ramis teretibus, foliis oblongis acuminatis mucronato-serratis glabris, paniculis terminalibus polystachiiis, corollis ovoideo-cylindraceis pubescentibus, antheris linearibus muticis.*—*Willd. sp. pl.* 2. p. 612.
Icon. Bot. mag. 905. *Catesb. car.* 1. t. 71. *Mich. arb.*

arborea.

In the valleys of the Allegany-mountains: Pennsylvania to Florida. $\frac{1}{2}$. June, July. *v. v.* A beautiful tree, from forty to sixty feet high. Flowers white. The leaves are of a very pleasant acid taste, from which it has been called *Sorrel-tree*. They are frequently made use of by hunters in those mountains to alleviate thirst.

17. *A. pubescens; foliis obovato-lanceolatis acutis subintegerrimis, ramis floriferis terminalibus paniculatis nudiusculis, glomerulis pedunculatis, corollis subglobosis pubescentibus, antheris obtusis muticis.*—*Willd. sp. pl.* 2. p. 612.

paniculata.

A. globulifera. Hortul.

A. racemosa. Lam. encycl. 1. p. 158.

Common in all swamps and woods: Canada to Carolina.

$\frac{1}{2}$. June, July. *v. v.* Flowers small, white. There are a number of varieties of this shrub, in size, pubescence, shape of leaves, &c.

18. *A. hispido-pubescens; foliis obovato-lanceolatis seu oblongis acutis serrulatis, ramis floriferis foliosis, glomerulis axillaribus paucifloris subsessilibus, corollis globosis hispidis, antheris aristatis.*

frondosa.

A. racemosa. Walt. fl. car. 138.

A. paniculata foliosiflora. Mich. fl. amer. 1. p. 225.

In the lower counties of Virginia and Carolina. $\frac{1}{2}$. May—July. *v. v.* Nearly allied to the former; but sufficiently distinct to form a species.

359. KALMIA. *Gen. pl.* 743.

1. *K. ramis, foliis calycibusque hirsutissimis, foliis oppositis alternisque subsessilibus ellipticis, pedunculis axillaribus solitariis unifloris foliis longioribus.*—*Willd. sp. pl.* 2. p. 601. *Walt. fl. car.* 138. *Mich. fl. amer.* 1. p. 257.

hirsuta.

K. ciliata. *Bartr. it.* 18.

Icon. *Bot. mag.* 138.

In barren pine-woods : South Carolina and Georgia. η .
June — Aug. *v. v.* A beautiful little shrub, but difficult
to cultivate ; leaves small, like thyme ; flowers large,
red.

glauca.

2. *K. ramulis ancipitibus, foliis oppositis subsessilibus oblongis lævibus subtus glaucis margine revolutis, corymbis terminalibus bracteatis, pedunculis calycibusque glaberrimis.*—*Ait. kew. ed. 2. v. 3. p. 47. Willd. sp. pl. 2. p. 601.*

K. polifolia. *Wangh. act. soc. berol.* 8. *p. 129. t. 5.*

Icon. *Bot. mag.* 177. *Ait. kew. 2. t. 8. Lam. illustr.* 363.

rosmarinifolia,

- β . *K. foliis linearibus magis revolutis subtus viridibus.*

In bogs of Canada and on the borders of mountain-lakes of New York and Pennsylvania. η . April, May. *v. v.*
An upright, small shrub ; flowers pale red, very handsome. The variety β . I discovered in a bog near Albany, New York, and am inclined to think it a distinct species.

cuneata.

3. *K. foliis sparsis sessilibus cuneato-oblongis subtus pubescentibus apice minutim aristatis, corymbis lateralibus paucifloris.* *Mich. fl. amer. 1. p. 257.*

On the mountains of Carolina. *Michaux.* η . +.
Flowers white, with red at the bottom. Resembles the following one in some respects, but is distinct ; the leaves are like those of *Azalea*, *Mich.*

angustifolia.

4. *K. foliis ternis petiolatis oblongis obtusis subtus subferrugineis, corymbis lateralibus, bracteis linearibus, pedunculis calycibusque glanduloso-pubescentibus.*—*Ait. kew. ed. 2. v. 3. p. 47. Willd. sp. pl. 2. p. 601.*

Icon. *Bot. mag.* 331. *Catesb. car. 3. t. 17. f. 1. Treu ehret. t. 38 f. 2.*

ovata.

- β . *K. foliis latioribus subovatis, caule altiore.*

In bogs and swamps, and sometimes in dry mountain lands : Canada to Carolina. β . New Jersey mountains. η . May—July. *v. v.* A shrub from one to two feet high ; flowers dark red ; known by the name of *Sheep Laurel*, being considered very poisonous when fed upon by sheep.

latifolia.

5. *K. foliis longe petiolatis sparsis ternisque ovalibus utrinque lævigatis et subconcoloribus, corymbis terminalibus viscido-pubescentibus.*—*Willd. sp. pl. 2. p. 600.*

Icon. *Bot. mag.* 175. *Wangh. amer. t.* 24. *f.* 50. *Catesb. car.* 2. *t.* 98.

On the sides of stony hills : Canada to Carolina. $\frac{1}{2}$. June, July. *v. v.* A shrub from three to eight feet high, very elegant when in flower ; called *Laurel* or in the mountains *Callico-bush*. The whole of this genus are evergreen.

360. EPIGÆA. *Gen. pl.* 748.

1. *E. ramis petiolis nervoque hirsutissimis, foliis cordato-ovatis integerrimis, corollis cylindricis.*—*Willd. sp. pl.* 2. *p.* 615. *repens.*

Icon. *Bot. rep.* 102. *Lam. illustr. t.* 367. *f.* 1. *Pluk. alm. t.* 107. *f.* 1.

On shady rocks and in stony woods : Canada to Carolina. $\frac{1}{2}$. May—July. *v. v.* A small trailing and creeping plant ; flowers white, tinged with red, very fragrant.

361. RHODODENDRON. *Gen. pl.* 746.

1. *R. arborescens ; foliis oblongis acutis subtus discoloribus, umbellis terminalibus, calycis laciniis ovalibus obtusis, corollis campanulatis.*—*Willd. sp. pl.* 2. *p.* 606. *maximum.*

- α . *R. foliis elliptico-oblongis convexis basi obtusiusculis subtus albicantibus vel ferrugineis, corollæ laciniis subrotundis, stylo staminibus vix longiore, floribus albidoro-seis.* *roseum.*

R. maximum Schmidt arb. t. 121. *Bot. mag.* 951. *bona. Lam. illustr.* 364.

- β . *R. foliis cuneato-lanceolatis planis basi sensim acutis subtus pallidioribus, corollæ laciniis rotundato-oblongis, stylo staminibus vix longiore, floribus minoribus albidis.* *album.*

- γ . *R. altissimum ; foliis majoribus oblongo-ellipticis planiusculis basi obtusiusculis utrinque viridibus, corollæ laciniis oblongis obtusis, stylo staminibus paulo longiore, floribus purpurascens.* *purpureum.*

α . In the mountains, near rivulets and lakes : Canada to Carolina. β . In shady cedar-swamps of New Jersey and Delaware. γ . On the highest mountains of Virginia and Carolina, near lakes. $\frac{1}{2}$. α . June, July. β . July, Aug. γ . May, June. *v. v.* This elegant shrub, with its varieties, grows from four to twenty feet high ; flowers large and in great abundance. The

variety γ . approaches near to *R. ponticum*, but is different in its foliaceous calyx and otherwise; it occupies the borders of lakes on high mountains, and grows to an immense size; its stem is often found eighteen inches and more in diameter, and its foliage triple the size of any other species: it might be considered as a distinct species. The only plant of this sort I have seen in England is in the garden of James Vere, Esq. at Kensington Gore. The leaves of var. β . are so distinct from var. α . that it also has claims to be a species.

- punctatum*. 2. *R. foliis ovali-lanceolatis utrinque acutis glabris subtus ferrugineis resinoso-punctatis, umbellis terminalibus, pedicellis brevibus, dentibus calycis brevissimis, corollis infundibuliformibus, laciniis ovatis subundulatis, capsulis elongatis.*—*Willd. sp. pl. 2. p. 607.*
R. minus. Mich. fl. amer. 1. p. 258.
 Icon. *Bot. rep.* 36. *Vent. hort. cels* 15.
 On the mountains of Carolina, particularly on the head-water of the Savannah river. $\frac{1}{2}$. July, Aug. *v. v.*
 An elegant shrub, not near the size of No. 1; flowers pink-red and smaller.
- catawbiense*. 3. *R. foliis brevi-ovalibus utrinque rotundato-obtusis glabris subtus discoloribus, umbellis terminalibus, laciniis calycis elongato-oblongis, corollis campanulatis.*—*Mich. fl. amer. 2. p. 258.*
 On the high mountains of Virginia and Carolina, particularly on the head-waters of the Catawba river.
 $\frac{1}{2}$. May, June. *v. v. s. fl.* The flowers are said to be scarlet.

362. RHODORA. *Gen. pl.* 745.

- canadensis*. 1. *Rhodora. Willd. sp. pl. 2. p. 603.*
 Icon. *Bot. mag.* 474. *Lam. illustr.* 364. *L'Herit. stirp.* 1. t. 68.
 In bogs of Canada, and on the high mountains of New York and Pennsylvania. $\frac{1}{2}$. April, May, *v. v.* A shrub about two feet high, of the appearance of *Azalea*. Leaves elliptic, entire, of a glaucous hue, and pubescent underneath. Flowers in terminal umbels, pale purple.

363. PYROLA. *Gen. pl.* 572.

1. *P. foliis rotundatis sive subrotundo-obovalibus obsolete serrulatis, spica floribus undique versis, pistillo declinato.*—*Willd. sp. pl.* 2. p. 621.
Icon. Fl. dan. 110. *Engl. bot.* 213. *Lam. illustr. t.* 367. f. 1.
 In dry stony or sandy woods : Canada to Carolina. $\mathcal{U}$.
 June, July. *v v* Flowers white; the stigma is rotate, with five tubercles. *rotundifolia.*
2. *P. foliis reniformibus, scapo squamis nonnullis convolutis vaginantibus remote vestito, spica floribus undique versis, pistillo declinato.* *Mich. fl. amer.* 1. p. 151.
 In Canada. *Michaux.* On the mountains of Pennsylvania, in beech-woods. *P.* $\mathcal{U}$. July. *v. v.* Flowers yellowish-green. *asarifolia.*
3. *P. foliis subrotundo-ovalibus serrulatis, scapo subnudo, spica floribus undique versis, pistillo recto.*—*Willd. sp. pl.* 2. p. 621.
Icon. Fl. dan. 55. *Engl. bot.* 158.
 In Canada and Labrador; rare in the western parts of New York. $\mathcal{U}$. July. *v. v.* Flowers smaller than the foregoing species, white, with a tinge of red; stigma peltated. *minor.*
4. *P. foliis rotundato-ovatis acutis serratis, spicæ floribus secundis, pistillo recto.*—*Willd. sp. pl.* 2. p. 621.
Icon. Fl. dan. 402. *Engl. bot.* 517.
 In sandy barren woods : Canada to New Jersey. $\mathcal{U}$.
 July. *v. v.* Flowers greenish-white; stigma peltate, gibbous. *secunda.*
5. *P. foliis suborbiculatis serratis, scapo unifloro, stylo recto.*
Willd. sp. pl. 2. p. 622
Icon. Fl. dan. t. 8. *Engl. bot.* 146.
 In shady woods and sphagnous swamps : Canada to New York. $\mathcal{U}$. July. *v. v.* This pretty little plant has large white and fragrant flowers; the stigma is five-radiated. All these species are evergreen, and known by the name of *Winter-green.* *uniflora.*

364. CHIMAPHILA.

- maculata.* 1. *C. foliis lanceolatis basi rotundatis remote serratis fascia longitudinali discolore notatis, scapo 2-3-floro, filamentis lanuginosis.*
Pyrola maculata. Willd. *sp. pl.* 2. p. 622.
 Icon. *Bot. mag.* 897. *Pluk. mant. t.* 349. *f.* 4.
 In shady gravelly or sandy woods : Canada to Carolina. γ . July. *v. v.* Flowers white ; leaves handsomely variegated. This plant is in high esteem for its medicinal qualities among the natives, they call it *Sip-si-sewa*. I have myself been witness of a successful cure made by a decoction of this plant, in a very severe case of hysterics. It is a plant eminently deserving the attention of physicians.
- corymbosa.* 2. *C. foliis cuneato-lanceolatis basi acutis serratis concoloribus, scapo corymbifero, filamentis glabris.*
P. umbellata. Willd. *sp. pl.* 2. p. 622.
 Icon. *Bot. mag.* 778. *Lam. illustr. t.* 367. *f.* 2.
 In dry woods, frequent : Canada to Virginia. γ . July. *v. v.* Flowers greenish-white, tinged with red ; anthers purple. Both species are handsome evergreens, and known by the name of *Winter-green*. I have ventured to form a new genus of these two species of *Pyrola*, so very distinct in habit as well as character. The name I have given is taken from the common name *Winter-green* : $\chi\epsilon\iota\mu\alpha$ *hyems*, and $\phi\iota\lambda\omicron\varsigma$ *amicus*.

365. LEDUM. *Gen. pl.* 744.

- palustre.* 1. *L. foliis linearibus margine revolutis subtus ferrugineo-tomentosis, staminibus denis corolla longioribus.* *Lam. encycl.* 3. p. 459. *Willd. sp. pl.* 2. p. 602.
 Icon. *Fl. dan.* 1031. *Duham. arb.* 1. t. 67. *Schmidt arb.* 163.
- decumbens.* β . *L. spithamæum decumbens.* *Ait. kew. ed.* 2. v. 3. p. 48.
 In swamps of Canada and round mountain-lakes of New York. β . Near Hudson's Bay. η . April, May. *v. v.* Flowers white.
- latifolium.* 2. *L. foliis lineari-oblongis margine replicatis subtus ferrugineo-tomentosis, staminibus subquinis corollam æquantibus.* *Lam. encycl.* 3. p. 459. *Willd. sp. pl.* 2. p. 602.
L. grœnlandicum. *Retz. obs.* 4. p. 26.

L. palustre. *Mich. fl. amer.* 1. p. 259.

Icon. *Schmidt arb.* 164. *Jacq. ic.* 3. t. 464. *Lam. illustr. t.* 363. f. 1.

In sphagnum swamps of Canada. ♀. April, May. *v. v.*
A larger and broader leaved plant than the foregoing one; commonly called *Labrador Tea*.

366. AMMYRSINE.

1. *A. foliis pusillis convexis ovalibus glabris lucidis, corymbis terminalibus congestis.*

luxifolia.

Ledum buxifolium. *Willd. sp. pl.* 2. p. 602. *Ait. kew.* 2. p. 65.

Ledum thymifolium. *Lam. encycl.* 3. p. 459.

Icon. *Bergius act. petrop.* 1777. p. 1. t. 3. f. 2. *Lam. illustr. t.* 363. f. 2.

In pine-barrens of New Jersey and on the mountains of Carolina. ♀. May, June. *v. v.* This elegant little shrub grows to the height of about six inches, and sometimes a foot; the delicacy of its leaves and abundance of its white flowers are highly ornamental. I propose it as a distinct genus, being on one side related to *Ledum*, on the other approaching very near to *Azalea procumbens*, *vid.* p. 154. The name has been derived from *αμμος* *sabulum*, and *μυρσίνη*, *myrtus pumilus*; being known by the name of *Sand-myrtle* among the inhabitants of New Jersey.

367. CLETHRA. *Gen. pl.* 751.

1. *C. foliis cuneato-obovatis acutis superne grosse-serratis utrinque glabris concoloribus, racemis spicatis simplicibus bracteatis cano-tomentosis.*—*Willd. sp. pl.* 2. p. 619.

alnifolia.

C. alnifolia denudata. *Ait. kew.* 2. p. 73.

Icon. *Schmidt arb.* 47. *Lam. illustr.* 369. *Mill. ic.* 28. *Catesb. car.* 1. t. 66.

In swamps, frequent: New England to Virginia. ♀. July—Sept. *v. v.* A shrub from three to four feet high; flowers white, as likewise all the following species are.

2. *C. foliis cuneato-obovatis acutis superne tenue-serratis subtus albo-tomentosis, racemis spicatis simplicibus bracteatis villosotomentosis.*—*Lam. encycl.* 2. p. 46.

tomentosa.

C. alnifolia pubescens. *Ait. kew.* 2. p. 73.

In swamps of Virginia and Carolina. $\frac{1}{2}$. July, Aug. *v. v.* Though generally considered a variety of No. 1, I take it to be a genuine species, as I have seen seedling plants of both species keeping constantly their distinction.

scabra.

3. *C. foliis lato-cuneato-obovatis acutis utrinque scabris grosse-serratis; serraturis uncinatis, racemis spicatis subpaniculatis bracteatis tenue-tomentosis.* — *Pers. syn.* 1. *p.* 483?

In the western parts of Georgia. *Lyon.* $\frac{1}{2}$. July. *v. s.* in *Herb. Lyon.*

paniculata.

4. *C. foliis anguste cuneato-lanceolatis acutis acuminato-serratis utrinque glabris, panícula terminali elongata racemiflora albo-tomentosa.* — *Willd. sp. pl.* 2. *p.* 620. *Ait. kew.* 2. *p.* 73.

In Carolina. *Bartram.* $\frac{1}{2}$. July, Aug. *v. s.* in *Herb. Banks.*

acuminata.

5. *C. foliis ovalibus acuminatis basi obtusiusculis serratis utrinque glabris subtus subglaucis, racemis spicatis subsolitariis bracteatis albo-tomentosis.* — *Mich. fl. amer.* 1. *p.* 260.

C. montana. Bartr. catal.

On the high mountains of Carolina. $\frac{1}{2}$. July, Aug. *v. v.* Grows to the size of a tree; leaves large; flowers resembling those of No. 1.

368. MYLOCARIUM. *Willd. enum.*

ligustrinum.

1. *Mylocarium.* *Willd. l. c.*
Cliftonia. Herb. Banks.

On the dry borders of swamps: Georgia. $\frac{1}{2}$. May, June. *v. v.* An elegant evergreen shrub, growing to the height of eight or twelve feet; flowers white, sweet-scented, in terminal spikes; seeds resembling buck-wheat, from which it has been called *Buck-wheat Tree.*

Frutex sempervirens, 8-pedalis et ultra. *Caulis* ramossissimus, cortice cinereo. *Rami* sparsi, glabri, fusci. *Folia* sparsa in summitate ramulorum conferta, patentia, subsessilia, cuneato-lanceolata, acutiuscula, integerrima, utrinque glabra, lævigata, plana, coriacea, subtus glauca. *Racemi* terminales, solitarii, simplices seu interdum basi ramosi, erecti, bracteati. *Bracteæ* solitariae, oblongæ, acutæ, membranaceæ, deciduæ,

Hylocarium ligustrinum.

pedicello breviores, albidæ, apice ferrugineæ. *Pedicelli* filiformes, rubelli, medio bibracteolati. *Bracteolæ* subulatæ. *Flores* albi, suaveolentes. *Calyx* minimus, viridis, albo-marginatus: laciniis subrotundis. *Petala* oblongo-obovata, obtusa, subunguiculata: unguibus erectis: laminæ concavæ, patentes. *Filamenta* receptaculo inserta, 5. alterna longiora, corolla vix breviora, inferne dilatata, crassa, superne subulata. *Antheræ* subrotundæ, flavæ. *Germen* prismatico-3-4-gonum, viride. *Stigma* sessile, crassum. *Capsula* magnitudine et figura *Polygoni Fagopyri*, 3-4-alata, 4-locularis. *Semina* solitaria.

369. MONOTROPA. *Gen. pl.* 737.

1. *M. scapo spicifloro*, squamis floribusque extus glabris; *Hypopithys*.
 floribus lateralibus octandris.—*Willd. sp. pl.* 2. p. 573.
Icon. Fl. dan. 232. *Engl. bot.* 69. *Moris. hist.* 3. s. 12. t. 16. f. 20. *Pluk. alm.* t. 209. f. 5.
 Parasitic, on the roots of beech and other trees, in shady moist places: Canada to Pennsylvania. $\mathcal{U}$. June, July. *v. v.* The whole plant is of a brownish-yellow appearance; it is smaller than the European species.
2. *M. scapo spicifloro*, bracteis floribusque undique lanuginosis.—*Mich. fl. amer.* 2. p. 266. *lanuginosa*.
 In similar places: Pennsylvania to Carolina. $\mathcal{U}$. July. *v. v.* Of a light tan-colour.
3. *M. scapo brevior*e crasso unifloro, squamis approximatis, flore cernuo decandro.—*Willd. sp. pl.* 2. p. 573. *excl. syn. Moris.* *uniflora*.
Icon. Pluk. alm. t. 209. f. 2. *Catesb. car.* 1. t. 36. *bona*.
 In similar situations: New York to Carolina. $\mathcal{U}$. May, June. *v. v.* In general it appears in large clusters growing together; the whole plant is white.
4. *M. scapo elongato rectissimo* unifloro, squamis distantibus, flore erecto decandro.—*Mich. fl. amer.* 1. p. 266. *morisoniana*.
Icon. Moris. hist. 3. s. 12. t. 16. f. 5. *bona*.
 In shady woods: Virginia and Carolina. $\mathcal{U}$. June. *v. v.*
 The flower is larger than No. 3, frequently with twelve stamina.

370. DIONÆA. *Gen. pl.* 729.*muscipula.*

- 1.
- Dionæa*
- .
- Willd. sp. pl.*
2. p. 574.

Icon. *Bot. mag.* 785. *Vent. malm.* 29.

In bogs of North Carolina, near Wilmington. 24. July, Aug. v. v. This singular and interesting plant, known by the name of *Venus's Fly-trap*, is fully described by the authors above quoted.

371. JUSSIEUA. *Gen. pl.* 741.*grandiflora.*

- 1.
- J. erecta*
- ; foliis integerrimis, inferioribus spathulatis, superioribus lanceolatis, floribus decandris, pedunculis calycibusque villosis.—
- Mich. fl. amer.*
1. p. 267.

Icon. *Abbot. insect.* 1. t. . . .

In swamps and ponds of Carolina and Georgia, near Savannah. 24. July. v. s. Roots creeping; flowers large, yellow.

erecta.

- 2.
- J. erecta*
- , glabra; foliis lanceolatis, floribus octandris sessilibus.—
- Willd. sp. pl.*
2. p. 578.

Icon. *Sloan. jam.* 1. t. 11. f. 1.

In swamps of Virginia and Carolina, about the Dismal-swamp. 24. Aug. v. v. Flowers yellow, smaller than the foregoing one.

subacaulis.

- 3.
- J. repens*
- , glabra; foliis lineari-lanceolatis repando-dentatis, floribus solitariis octandris pedunculatis, filamentis alternis brevissimis, petalis obovatis.

On the banks of the Missouri. *M. Lewis.* 24. June. v. s. Flowers small, yellow.

372. GYMNOCLADUS. *Gen. pl.* 1537.*canadensis.*

- 1.
- G. foliis bipinnatis, foliolis ovalibus acuminatis pubescentibus*
- .—
- Willd. sp. pl.*
4. p. 816.

Guilandina dioica. *Sp. pl.* 546.Icon. *Mich. fl. amer.* 1. p. 51. *Mich. arb.* 23. *Lam. illustr.* 823. *Duham. arb.* 1. t. 103.

In the forests of Canada, western parts of New York, Tennessee, Ohio, and Kentucky. 2. May, June. v. v. A large tree, known by the name of *Kentucky Coffee Tree*, and among the Canadians *Chicot*. Flowers white. Seed-pods large, dark brown.

373. ACACIA. *Willd. sp. pl. 4. p. 1049.*

1. *A. inermis* ; foliis bipinnatis, partialibus 8-jugis, propriis multijugis, glandula inter par infimum partialium, spicis globosis solitariis pedunculatis axillaribus, leguminibus lanceolatis rectis. *Willd. sp. pl. 4. p. 1071.* *brachyloba.*

Mimosa illinoensis. Mich. fl. amer. 2. p. 254.

In extensive natural meadows of Illinois and Kentucky.

♂. June, July. *v. v.* Flowers white, with only five stamina.

2. *A. inermis* ; foliis bipinnatis, partialibus 12-jugis, propriis multijugis, glandula inter omnia paria partialium, spicis globosis pedunculatis solitariis axillaribus, leguminibus falcatis. *Willd. sp. pl. 4. p. 1071.* *glandulosa.*

Mimosa glandulosa. Mich. fl. amer. 2. p. 254.

Icon. *Vent. choix 27.*

On the banks of the rivers Tennessee and Mississippi.

♂. July. *v. v.* Flowers white, pentandrous.

374. SCHRANKIA. *Willd. sp. pl. 4. p. 1041.*

1. *S. aculeata* ; foliis bipinnatis, partialibus 6-jugis, propriis multijugis, leguminibus acuminatis, caule pentagono. *Willd. sp. pl. 4. p. 1043.* *uncinata.*

Mimosa horridula. Mich. fl. amer. 2. p. 254.

Mimosa Intsia. Walt. fl. car. 252.

In old fields and meadows: Virginia to Florida. ♂.

June, July. *v. v.* Flowers in globular spikes, red.

It is known by the name of *Sensitive Briar*.

375. CASSIA. *Gen. pl. 700.*

1. *C. glabra* ; foliis 3-jugis obovatis subretusis, exterioribus majoribus, glandula subulata inter inferiora, pedunculis paucifloris axillaribus, leguminibus subtetragonis rectis.—*Willd. sp. pl. 2. p. 515.* *Tora.*

Icon. *Dill. elth. t. 63. f. 73. Mill. dict. t. 82.*

In sandy fields of Georgia, near Savannah. ☉. July.

v. v. The flowers of all the species mentioned here are yellow.

2. *C. glabra* ; foliis sub-5-jugis ovato-lanceolatis margine scabris, exterioribus majoribus, glandula basilari, pedunculis multifloris axillaribus et subpaniculato-termi- *occidentalis.*

nalibus, leguminibus linearibus falcatis. *Willd. sp. pl.* 1. p. 518.

Icon. *Comm. hort.* 1. t. 26. *Sloan. jam.* 2. t. 175. f. 3 & 4.

In old fields: Virginia to Carolina. $\mathcal{U}$. $\frac{1}{2}$. June—Aug. v. v.

ligustrina. 3. *C. tenuissime pubescens*; foliis 7-jugis lanceolatis, extimis minoribus, glandula basilari, pedunculis terminalibus subpaniculatis, leguminibus oblongis subfalcatis.—*Willd. sp. pl.* 2. p. 523.

Icon. *Dill. elth. t.* 259. f. 338 *Mart. cent.* 21.

In cultivated grounds: Virginia to Georgia. $\frac{1}{2}$. $\mathcal{U}$. July, Aug. v. v.

linearis. 4. *C. glabra*; foliis 6-jugis ovali-lanceolatis angustatis acutissimis, glandula basilari, pedunculis subbifloris axillaribus et terminalibus, legumine lineari. *Mich. fl. amer.* 1. p. 261.

In Carolina. *Michaux.* $\mathcal{U}$. May, June. +.

marilandica. 5. *C. glabriuscula*; foliis 8-jugis lanceolato-oblongis mucronatis subæqualibus, glandula petiolari obovata, racemis axillaribus et paniculato-terminalibus, leguminibus linearibus arcuatis glabris.—*Willd. sp. pl.* 2. p. 524.

Icon. *Dill. elth. t.* 260. f. 339. *Mart. cent.* 23.

In low gravelly soil, on the banks of rivers: New York to Carolina. $\mathcal{U}$. June—Aug. v. v.

*Chumæcris-
ta.* 6. *C. glabriuscula*; foliis multijugis linearibus, glandula petiolari subpedicellata, floribus subgeminis, pedicellis longis, petalis duobus maculatis, leguminibus pubescentibus.—*Willd. sp. pl.* 2. p. 528.

Icon. *Bot. mag.* 107. *Comm. hort.* 1. t. 37.

In cultivated grounds of Virginia and Carolina. $\odot$. July, Aug. v. v. The flowers large and handsome, with two purple spots at the bottom. There is a variety, the stem of which is covered with long brown hair.

fasciculata. 7. *C. glabriuscula*; foliis ad summum 9-jugis, glandula petiolari sessili submedia, fasciculis multifloris lateralibus, petalis staminibusque concoloribus, leguminibus glabris arcuatim adscendentibus.—*Mich. fl. amer.* 1. p. 262.

In dry fields: New York to Carolina. $\odot$. June—Aug. v. v. The flowers are smaller than the foregoing species.

3. *C. patula*, pubescens; foliis multijugis linearibus, glandula petiolari pedicellata, pedunculis brevibus supra axillaribus 2-3-floris, floribus pentandris.—*Willd. sp. pl.* 2. p. 529.

Icon. *Pluk. alm. t.* 314. f. 5.

In sandy fields: New England to Carolina. ☉. June—Aug. *v. v.* The leaves are in a slight degree sensitive.

9. *C. foliis multijugis eglandulosis, caule procumbente.* *procumbens.*
Willd. sp. pl. 2. p. 530.

In dry fields of Virginia. ☉. +. Flowers small.

376. PODALYRIA. *Lam. illustr. t.* 327.

1. *P. glaberrima*; foliis simplicibus perfoliatis suborbiculatis integerrimis, floribus axillaribus solitariis unifloris, leguminibus subglobosis.—*Mich. fl. amer.* 1. p. 263.

Crotalaria perfoliata. *Sp. pl.* 1003.

Sophora perfoliata. *Walt. fl. car.* 135.

Rafnia perfoliata. *Willd. sp. pl.* 3. p. 949.

Icon. *Dill. elth. t.* 102. f. 122.

In dry barren fields: Carolina and Georgia. ♀. July.
v. v. Flowers small, yellow.

2. *P. caule foliis calycibusque pubescentibus, foliis ternatis sessilibus, foliolis lanceolatis obtusis, stipulis setaceis minutis, floribus axillaribus solitariis pedicellatis.*—*Mich. fl. amer.* 1. p. 263.

Sophora lanceolata. *Walt. fl. car.* 135.

In Carolina and Georgia. *Michaux.* ♀. +. Flowers yellow.

3. *P. caule foliis subtus et margine calycibusque pubescentibus, foliis ternatis subsessilibus, foliolis ovali-oblongis obtusis, stipulis linearibus, racemo terminali subspicato, calycibus subsemi-4-fidis.*—*Mich. fl. amer.* 1. p. 264.

Sophora villosa. *Walt. fl. car.* 134.

In low sandy grounds: Virginia and North Carolina.
♀. June, July. *v. v.* Flowers yellow; resembles a lupine very much.

4. *P. glabra*; foliis ternatis brevissime petiolatis, foliolis oblongo-cuneatis obtusis, stipulis lanceolatis acutis petiolo duplo longioribus, racemis spicatis elongatis, leguminibus acuminatis.—*Mich. fl. amer.* 1. p. 264.

P. australis. *Willd. sp. pl.* 2. p. 503.

nictitans.

perfoliata.

uniflora.

villosa.

cærulea.

Sophora australis. *Syst. veg.* 325.

Icon. *Bot. mag.* 509. *Vent. hort. cels* 46. *Trew pl. rar.* t. 14.

On the banks of rivers: Virginia and Carolina, particularly in the western districts. 2. June, July. v. v. Flowers blue.

alba.

5. *P. ramis divaricatis flexuosis glabris, foliis ternatis petiolatis, foliolis oblongis obtusis glabriuculis, stipulis subulatis petiolo brevioribus, racemo spicato elongato, leguminibus obovatis.*—*Willd. sp. pl.* 2. p. 503.

Sophora alba. *Syst. veg.* 325.

Crotalaria alba. *Sp. pl.* 2. p. 1006.

Icon. *Bot. mag.* 1177. *Mart. cent.* 44.

In the western parts of Virginia and Carolina, on river banks. 2. June, July. v. v. Flowers white.

mollis.

6. *P. caule foliis calycibusque minutim pubescentibus, foliis ternatis, foliolis subrhomboideo-lanceolatis, stipulis foliaceis lanceolatis, racemo spicato terminali, calycis dentibus acutis.*—*Mich. fl. amer.* 1. p. 264.

In the county of Mecklenburg in Upper Carolina. *Michaux.* 2. +.

tinctoria.

7. *P. glaberrima, ramosissima, microphylla; foliis ternatis subsessilibus, foliolis cuneato-obovatis rotundato-obtusis, stipulis obsoletis oblongis acutis petiolo multoties brevioribus, racemis spicatis terminalibus, leguminibus ovatis longe-stipitatis.*—*Willd. sp. pl.* 2. p. 503.

Sophora tinctoria. *Sp. pl.* 534.

Icon. *Bot. mag.* 1099. *Lam. illustr. t.* 327. f. 1.

In woods, on dry hills: Canada to Carolina. 2. July, Aug. v. v. Flowers yellow; called *Wild Indigo*.

377. CERCIS. *Gen. pl.* 696.

canadensis.

1. *C. foliis subrotundo-cordatis acuminatis, ad axillas nervorum villosis, stipulis minutis, leguminibus brevi-stipitatis.*—*Willd. sp. pl.* 2. p. 508.

Icon. *Schmidt arb.* 21. *Mill. ic.* 2.

pubescens.

- β. *C. foliis subrotundis acutis subtus pubescentibus.*

On the banks of rivers: Canada to Virginia. β. In Georgia. 2. May. v. v. A handsome tree, generally called *Judas-tree*. Flowers crimson.

378. VIRGILIA. *Lam. illustr. t. 326.*

1. V. foliis pinnatis, foliolis alternis ovatis brevi-acuminatis glabris, racemis elongatis pendulis, leguminibus petiolatis planis.—*Mich. arb. t. . . .*

lutea.

On the mountains between Georgia and Tennessee. $\bar{h}$. June. *v. v. s. fl.*; *v. s. c. fl. et fr. in Herb. Lyon.*
A handsome tree, resembling *Cytisus Laburnum* very much. Its bark gives a beautiful yellow dye.

II. DIGYNIA.

379. HYDRANGEA. *Gen. pl. 760.*

1. H. foliis oblongo-ovatis basi obtusis acuminatis dentatis subtus glabris, cymis nudis.

vulgaris.

H. arborescens. *Willd. sp. pl. 2. p. 633.*

Icon. *Bot. mag. 437. Lam. illustr. t. 370. f. 1. Mill. ic. 251.*

On the banks of rivulets, in shady situations: Pennsylvania to Virginia. $\bar{h}$. July, Aug. *v. v.* A shrub about five feet high; flowers white.

2. H. foliis lato-ovatis basi subcordatis acuminatis grosse dentatis subtus glabris, cymis subradiatis.

cordata.

H. vulgaris. *Mich. fl. amer. 1. p. 268.*

On the mountains of Carolina. $\bar{h}$. June, July. *v. v.*
This, though nearly allied to the preceding, is a very distinct species, and easily known from that by its more robust appearance and larger leaves.

3. H. foliis ovatis acuminatis dentatis subtus niveo-tomentosis: serraturis mucronatis, cymis radiatis.—*Mich. fl. amer. 1. p. 268.*

nivea.

H. radiata. *Walt. fl. car. 251.*

Icon. *Lam. illustr. t. 307. f. 2.*

On the head-waters of the Savannah river; in Tennessee, &c. $\bar{h}$. July, Aug. *v. v.* A very ornamental shrub.

- 4 H. foliis oblongis sinuato-lobatis dentatis subtus tomentosis, cymis radiatis thyrsoido-paniculatis.—*Willd. sp. pl. 2. p. 634.*

quercifolia.

H. radiata. *Smith ic. pict. 12.*

Icon. *Bartr. it. ed. germ. t. 7.*

On banks of rivers: Georgia and Florida. $\frac{1}{2}$. July, Aug. *v. v.* A handsome shrub; flowers in large clusters, white, changing to red.

380. SAXIFRAGA. *Gen. pl.* 764.

* *Foliis indivisis radicalibus; caule subnudo.*

Aizoon.

1. *S. foliis radicalibus aggregatis spathulatis acutiusculis glabris cartilagineo-dentatis, caule simplici folioso piloso, calycibus glabris.*—*Willd. sp. pl. 2. p. 639.*

Icon. *Jacq. austr. 5. t. 438. Fl. lap. t. 2. f. 2.*

In Labrador and probably in Canada. *Colmaster. 24.* June, July. *v. s. in Herb. Dickson.* Not above three inches high.

stellaris.

2. *S. foliis cuneatis serratis margine pilosis, caule nudo simplici, petalis acutis, capsula supera.*—*Willd. sp. pl. 2. p. 644.*

Icon. *Engl. bot. 167. Fl. dan. 23. Jacq. coll. 1. t. 13.*

In Labrador and Canada. *Colmaster. 24.* June, July. *v. s. in Herb. Dickson.* Flowers white.

serpyllifolia.

3. *S. microphylla, erecta; foliis ovalibus glabris, caule unifloro oligophyllo, petalis obovatis.*

On the north-west coast. *Nelson. 24. v. s. in Herb. Banks.* Flowers large.

androsacea.

4. *S. pubescens; foliis spathulato-linearibus petiolatis, caule folioso 1-2-floro.*

S. androsacea. Jacq. austr. 389?

On the north-west coast. *Nelson. 24. v. s. in Herb. Banks.* Flowers white, small.

bronchialis.

5. *S. stolonifera; foliis imbricatis subulatis planis mucronatis spinoso-ciliatis, caule subnudo paniculato.*—*Willd. sp. pl. 2. p. 644.*

On the north-west coast. *Nelson. 24. v. s. in Herb. Banks.*

nivalis.

6. *S. foliis subrotundo-cuneatis antice crenatis in petiolum decurrentibus, caule nudo simplici, floribus congestis racemosis.*—*Willd. sp. pl. 2. p. 645.*

Icon. *Fl. lapp. t. 2. f. 5. Fl. dan. t. 12.*

In Labrador and Canada. *24.* May, June. *v. s. in Herb. Dickson.* Not above two inches high; flowers white.

virginiensis.

7. *S. tota minutim pubescens; foliis ovalibus obtusis crenatis in petiolum decurrentibus, caule subaphyllo pa-*

niculato, ramulis dichotomis, floribus subsessilibus.—
Mich. fl. amer. 1. p. 269.

S. pilosa. *Herb. Banks.*

Icon. *Pluk. alm. t.* 222. f. 5.

On rocks and dry hills: New England to Virginia, and on the Carolina mountains. *W.* May, June. *v. v.* Variable in size; flowers white.

8. *S. foliis reniformibus dentatis utrinque pilosis aveniis, caule nudo paniculato.*—*Willd. sp. pl.* 2. p. 648.

Icon. *Lapeyr. t.* 14. *Magn. hort.* 88. *Moris. hist.* 3. p. 12. t. 9. f. 12.

On the north-west coast. *Nelson.* *W.* *v. s.* in *Herb. Banks.* Flowers small.

9. *S. hirsutissima; foliis elongato-spathulatis acute dentatis, caulibus divaricato-dichotomis, paniculis capillaribus laxis, calyce reflexo, petalis inæqualibus.* *Mich. fl. amer.* 1. p. 268. *leucanthemifolia.*

On high mountains of Carolina. *Michaux.* On the Peaks of Otter, Virginia. *P.* *W.* June. *v. v.* About eight inches high; flowers white, elegantly red and yellow punctated. This and the *S. sarmentosa* ought to form a separate genus.

10. *S. pubescens; foliis oblongo-lanceolatis utrinque acutis obsolete denticulatis, caule nudo, panicula oblonga, ramis summitate fasciculifloris.*—*Willd. sp. pl.* 2. p. 640. *pensylvanica.*

Icon. *Dill. elth. t.* 253. f. 328.

In wet meadows: New York to Virginia. *W.* June. *v. v.* Above a foot high; flowers small, yellowish-green.

11. *S. glabriuscula; foliis oblongo-lanceolatis acutis erosodentatis, caule nudo, panicula oblonga, ramis divaricato-ramosissimis laxifloris, pedicellis filiformibus.* *erosa.*

In stony rivulets on the high mountains of Virginia and Carolina. *W.* June, July. *v. v.* Resembles the foregoing one in some respects very much.

** *Foliis indivisis; caule folioso.*

12. *S. cæspitosa; foliis caulinis oppositis imbricatis ovatis obtusis, summis ciliatis, floribus terminalibus solitariis sessilibus.*—*Willd. sp. pl.* 2. p. 648. *oppositifolia.*

Icon. *Engl. bot.* 9. *Fl. dan.* 34. *Fl. lapp. t.* 2. f. 1.

In Newfoundland and Labrador. *W.* May. *v. v.*; *v. s.* in *Herb. Banks.* Flowers purple, large.

- aizoides*. 13. *S. decumbens*, cæspitosa; foliis caulinis linearibus alternis dentato-ciliatis, panícula pauciflora, petalis longitudine calycis.—*Willd. sp. pl.* 2. p. 650.
Icon. *Engl. bot.* 39. *Fl. dan.* 72.
In Newfoundland and Labrador. *W.* v. s. in *Herb. Banks.* Flowers yellow.
- setigera*. 14. *S. pubescens*; foliis radicalibus aggregatis spathulatis acutis spinoso-ciliatis, caule folioso subbifloro, calycibus hispidis, flagellis setaceis longissimis in axillis foliorum.
On the north-west coast. *Nelson.* *W.* v. s. in *Herb. Banks.* Flowers small, white. A very singular species.

*** *Foliis lobatis.*

- rivularis*. 15. *S. erecta*; foliis palmatis petiolatis: summo spathulato, caule paucifloro, radice fibrosa, germine semi-infero.
Smith fl. brit. 2. p. 454.
Icon. *Fl. dan.* 118. *Fl. lapp.* 2. f. 7.
In Labrador. *Chateaux.* *W.* June. v. s. in *Herb. Banks.* Flowers white, small.
- sibirica*. 16. *S. adscendens*; foliis reniformibus palmatis pilosis, petiolis hirsutis, caulinis sessilibus, pedunculis longissimis filiformibus bifidis nudis.—*Willd. sp. pl.* 2. p. 653.
Labrador and Newfoundland. *W.* v. s. in *Herb. Banks.* Flowers white, large.
- pectinata*. 17. *S. cæspitosa*, multicaulis; foliis 3-lobatis, laciniis 3-fidis linearibus acutis glabris, nervo medio exarato, caule folioso racemifloro.
On the north-west coast. *Menzies.* *W.* v. s. in *Herb. Banks.* Resembles *S. petraea*; but the leaves are narrow, and the divisions divaricated.
- cæspitosa*. 18. *S. foliis radicalibus aggregatis carnosissimis linearibus obtusis integris trifidisve subtus nervosis, caule erecto nudiusculo paucifloro, petalis calyce duplo longioribus.*—*Willd. sp. pl.* 2. p. 456.
Icon. *Waldst. hung.* 88. *Engl. bot.* 794.
- grœnlandica*. β . *S. foliis caulinis palmato-multifidis, laciniis acutis.*—*Willd. l. c.*
Icon. *Dill. elth.* 353. f. 3 & 9.
On the north-west coast. *W.* June. v. s. in *Herb. Banks.* Flowers pale yellow.
- tricuspidata*. 19. *S. foliis radicalibus aggregatis cuneiformibus ciliatis*

acute tridentatis, caule adscendente racemoso, petalis lanceolatis calyce triplo longioribus. *Willd. sp. pl. 2. p. 657.*

Icon. *Fl. dan.* 976.

On Hudson's Bay. *℥. June. v. s. in Herb. Banks.*
Flowers large, white, handsomely punctated.

381. TIARELLA. *Gen. pl.* 765.

1. *T. foliis cordatis acute-lobatis dentatis, dentibus mucronatis, scapo racemoso.*—*Willd. sp. pl. 2. p. 659.* *cordifolia.*

Icon. *Herm. parad.* 129. *Lam. illustr.* 373.

In shady woods of Canada, and on the high mountains of New York and Pennsylvania. *℥. April, May. v. v.*
Flowers white.

2. *T. foliis ovatis cordatis acutis brevi-lobatis dentatis, caulibus alternis distantibus, racemo filiformi subspicato, calycibus tubulosis.* *Menziesii.*

On the north-west coast. *Menzies. ℥. v. s. in Herb. Banks.* More than a foot high, with five or six alternate leaves on the stem.

3. *T. foliis ternatis, foliolis subrhomboideis serratis pilosis, racemis terminalibus, corymbulis florum alternis, calycibus campanulatis.*—*Willd. sp. pl. 2. p. 659.* *trifoliata.*

On the north-west coast. *Menzies. ℥. v. s. in Herb. Banks.*

4. *T. foliis biternatis, foliolis ovato-cordatis obliquis inciso-lobatis dentatis, caule folioso, panicula terminali divaricato-spiciflora.* *Vent. malm.* 54. *biternata.*

On the mountains of South Carolina. *℥. May. v. v.*
This plant resembles *Spiraea Aruncus* in habit; flowers yellowish-white. The specimens I had an opportunity to examine were destitute of petals, though they are so distinctly described by Ventenat. It is however probable that some individuals may be petaliferous, while others are apetalous.

382. MITELLA. *Gen. pl.* 766.

1. *M. foliis sublobato-acutangulis dentatis, caule erecto superne opposite diphylo.*—*Willd. sp. pl. 2. p. 659.* *diphylla.*

Icon. *Rob. ic.* 80. *Schkuhr handb.* 1. t. 120. *Lam. illustr.* t. 373. f. 1.

In shady places, among rocks, near springs. *℥. May.*

- v. v.* Flowers white, which is the colour of all the following species.
- cordifolia.* 2. *M. foliis orbiculato-reniformibus subduplicato-crenatis lucidis, scapo setaceo aphylo. Mich. fl. amer. 1. p. 270. Lam. encycl. 4. p. 185.*
Icon. Lam. illustr. t. 373. f. 3.
 In Canada. *Michaux.* On high mountains of New York and Pennsylvania. *¶. May, June. v. v.*
- reniformis.* 3. *M. foliis reniformibus repandis ciliatis, scapo nudo.— Lam. encycl. 4. p. 185.*
M. nuda. Willd. sp. pl. 2. p. 660.
Icon. Lam. illustr. t. 373. f. 2. Gmel. sib. 4. t. 68. f. 2.
 On the mountains of New Hampshire and Vermont, and probably in Canada. *¶. June. v. v.*
- prostrata.* 4. *M. radice repente, caulibus prostratis, foliis alternis rotundato-cordatis subacutis obtuse sublobatis. Mich. fl. amer. 1. p. 270.*
 In the most southern parts of Canada. *Michaux.* On the mountains of Virginia, near the Sweet-springs. *¶. May, June. v. v.*
- grandiflora.* 5. *M. hirsutissima; foliis rotundato-cordatis obtuse-lobatis dentatis, scapo folio uno alterove instructo, floribus pedicellatis, calycibus campanulatis.*
 On the north-west coast. *Menzies. ¶. v. s. in Herb. Banks.* The flowers are more than four times the size of the other species.

383. SAPONARIA. *Gen. pl. 769.*

- officinalis.* 1. *S. calycibus cylindricis, foliis ovato-lanceolatis. Willd. sp. pl. 2. p. 667.*
Icon. Fl. dan. 543. Engl. bot. 1060.
 Among rubbish, near buildings and cultivated grounds; sometimes in gravel-pits and on dry hills; probably introduced from Europe. *¶. July, Aug. v. v.*
 Flowers white, frequently semi-double.

384. DIANTHUS. *Gen. pl. 770.*

- Armeria.* 1. *D. floribus aggregatis fasciculatis, squamis calycinis lanceolatis villosis tubum æquantibus. Willd. sp. pl. 2. p. 673.*
Icon. Fl. dan. 230. Engl. bot. 317.

In sandy fields and pine-woods: New Jersey, near Cooper's Ferry. ☉. July. *v. v.* Flowers small, rose-coloured.

2. *D. floribus aggregatis, pedunculis longis, squamis tubo carolinianus. dimidio minoribus. Walt. fl. car. 140.*

In Carolina. *Walter. +.*

385. SCLERANTHUS. *Gen. pl. 767.*

1. *S. calycibus fructus patulis acutis, caulibus patentibus.*

annuus.

Smith fl. brit. 2. p. 458. Willd. sp. pl. 2. p. 660.

Icon. Fl. dan. 504. Engl. bot. 351.

In dry sandy fields, on the shores of the Delaware, New Jersey opposite Philadelphia. ☉. June, July. *v. v.*

III. TRIGYNIA.

386. CUCUBALUS. *Gen. pl. 771.*

1. *C. glaber, glaucus, decumbens; foliis oblongo-ovalibus acutis enerviis, calycibus inflato-membranaceis venosis.*

Behen.

Mich. fl. amer. 1. p. 271. Willd. sp. pl. 2. p. 684.

Silene inflata. Smith fl. brit. 467.

Icon. Fl. dan. 914. Engl. bot. 164.

In cultivated grounds, near Quebec, Canada. *Michaux.*

4. July. v. v. Flowers white.

2. *C. pubescens, erectus; foliis quaterno-verticillatis ovali-lanceolatis longissime acuminatis.—Willd. sp. pl. 2. p. 686.*

stellatus.

Icon. Bot. mag. 1107.

In hilly and shady woods: New England to Virginia.

4. July, Aug. v. v. Flowers white; the petals are without a corona.

387. SILENE. *Gen. pl. 772.*

1. *S. hirsuta; foliis cuneato-oblongis, summis linearibus, petalis subrotundis integerrimis, calycibus fructiferis erectis subspicatis alternis.—Willd. sp. pl. 2. p. 691.*

*quinquevul-
nera.*

Icon. Rob. ic. 183. Engl. bot. 86.

On the sea-coast of Carolina; near Charlestown. ☉.

June, July. *v. v.* Flowers small, crimson.

- pennsylvanica*. 2. *S. viscido-pubescens*; foliis cuneatis, caulinis lanceolatis, cauliculis in summitate paucifloris, petalis obtusissimis leviter emarginatis subcrenatis. *Mich. fl. amer.* 1. p. 272.
S. virginica. *Willd. sp. pl.* 2. p. 702.
S. caroliniana. *Walt. fl. car.* 142.
 In dry sandy woods, and on rocks: New York to Virginia. ♀. May, June. v. v. Flowers purple, very handsome.
- virginica*. 3. *S. decumbens*, tota viscoso-pubescens; foliis oblongis margine asperiusculis, panícula dichotoma, petalis bifidis, genitalibus exertis. *Mich. fl. amer.* 1. p. 272.
S. Catesbæi. *Walt. fl. car.* 141. *Willd. sp. pl.* 2. p. 706.
 Icon. *Catesb. car.* 2. t. 4. *Pluk. alm. t.* 203. f. 1.
 In the western parts of Virginia and Carolina, and in the Illinois country. ♀. June, July. v. v. A beautiful species; flowers dark crimson.
- ovata*. 4. *S. foliis ovato-lanceolatis acuminatis glabriusculis, racemo terminali composito, calycibus ovatis, genitalibus exertis, caule simplici.*
Cucubalus polypetalus. *Walt. fl. car.* 141?
 In the western part of Georgia and Carolina. ♀. July. v. s. in *Herb. Banks*. Flowers white or pale red.
- antirrhina*. 5. *S. foliis lanceolatis subciliatis, pedunculis trifidis, petalis emarginatis, calycibus ovatis.* *Willd. sp. pl.* 2. p. 702.
 Icon. *Dill. elth. t.* 313. f. 403.
 In old fields and on the banks of rivers: Pennsylvania to Carolina. ☉. June, July. v. v. Flowers small, white or greenish.
- nocturna*. 6. *S. floribus spicatis alternis sessilibus secundis, petalis bifidis.* *Willd. sp. pl.* 2. p. 692.
 Icon. *Dill. elth. t.* 310. f. 400.
 On the banks of the Potowmac, near Harper's Ferry, Virginia. ☉. ♂. June. v. v. Flowers white.
- acaulis*. 7. *S. acaulis depressa; foliis linearibus carinatis, pedunculis terminalibus solitariis erectis unifloris, petalis emarginatis.*—*Willd. sp. pl.* 2. p. 709.
 Icon. *Fl. dan. t.* 21. *Dill. elth. t.* 167. f. 206.
 In Labrador. ♀. June, July. v. s. in *Herb. Lambert*. Flowers rose-coloured.

388. STELLARIA. *Gen. pl.* 773.

1. *S. pubescens*; foliis sessilibus ovatis ciliatis, pedicellis erectis, petalis calyce longioribus.—*Mich. fl. amer.* 1. p. 273. *pubera.*
In shady woods, on rich soil: Pennsylvania to Carolina. $\mathcal{U}$. May. *v. v.* Flowers large, white, which is the colour of the whole genus.
2. *S. foliis ovatis glabris, caulibus procumbentibus linea laterali pilosa alterna.* *Smith fl. brit.* 2. p. 473. *media.*
Alsine media. *Sp. pl.* 389.
Icon. Engl. bot. 573. *Fl. dan.* 438 & 525.
In cultivated grounds: common. $\odot$. April—Sept. *v. v.*
A common weed, known by the name of *Chickweed*.
The number of stamina is variable, three, five, or ten.
3. *S. cæspitosa*; foliis subulatis congestis, ramis bipartitis, petalis emarginatis, calycibus striatis.—*Willd. sp. pl.* 2. p. 715. *visiflora.*
Icon. Fl. dan. 12. *Swartz. nov. act. holm.* 1788. t. 1. f. 1.
In Labrador and Canada. $\mathcal{U}$. May, June. *v. s. in Herb. Dickson.* This is rather an *Arenaria* than a *Stellaria*.

389. ARENARIA. *Gen. pl.* 774.* *Foliis oblongis.*

1. *A. caule dichotomo, foliis ovatis acutis carnosis, calycibus acuminatis.*—*Willd. sp. pl.* 2. p. 716. *peploidēs.*
Icon. Gmel. sib. 4. t. 64. *Loes. pruss.* t. 2.
In Labrador. $\mathcal{U}$. June, July. *v. s. in Herb. Banks.*
2. *A. caule filiformi simplici, foliis ovatis obtusis subtriplinerviis, pedunculis lateralibus solitariis elongatis bifidis, pedicello altero medio bibracteato, corollis calyce longioribus.*—*Willd. sp. pl.* 2. p. 718. *lateriflora.*
About Hudson's Bay. In the state of New York. *Dr. Martin.* $\mathcal{U}$. July. *v. s. in Herb. Banks.*
3. *A. caule dichotomo diffuso, foliis ovatis acutis subciliatis, calycibus acutis substriatis, petalis calyce brevioribus.* *serpyllifolia.*
—*Willd. sp. pl.* 2. p. 720.
Icon. Fl. dan. 977.
In cultivated grounds and on road-sides: New York to Hudson's Bay. May—Aug. *v. v.*
4. *A. caule dichotomo diffuso, foliis ovalibus subacutis, pe-* *thymifolia.*

dunculis alternis axillaribus solitariis elongatis, calycibus acutis, petalis longitudine calycis.

On the sea-shore of Labrador. *Ö. v. s. in Herb. Banks.*

*** Foliis subulato-linearibus.*

- macrocarpa.* 5. *A. cæspitosa*; foliis congestis subulato-linearibus planis margine ciliatis, pedunculis terminalibus unifloris foliosis, calycis foliolis linearibus, petalis ovatis calyce duplo longioribus, capsulis elongato-oblongis calyce triplo longioribus.
On the north-west coast of America. *Nelson. U. v. s. in Herb. Banks.* This approaches near to *A. grandiflora*, but differs in the long capsule and the linear leaves of the calyx materially.
- patula.* 6. *A. pubescens*; caulibus filiformibus paniculatis multifloris, foliis setaceo-subulatis patentibus, petalis subemarginatis calyce acutissimo et striato paulo longioribus.—*Mich. fl. amer. 1. p. 273.*
On rocks, near Knoxville, Kentucky. *Michaux. U. +.* Resembles *A. tenuifolia*.
- squarrosa.* 7. *A. cæspitosa*; foliis imis squarroso-imbricatis canaliculatis glabris, cauliculis simplicissimis oligophyllis, floribus terminalibus paucis erectis, petalis calyce subrotundo multo majoribus. *Mich. fl. amer. 1. p. 273.*
A. imbricata. Herb. Banks.
A. caroliniana. Walt. fl. car. 141.
In sandy pine-barrens: New Jersey and Carolina. *U. July, Aug. v. v.* Resembles *A. saxatilis*.
- stricta.* 8. *A. glabra, erecta, multicaulis*; foliis subulato-linearibus erectis, panicula variflora, petalis calyce ovali-lanceolato conspicue striato multo longioribus. *Mich. fl. amer. 1. p. 274.*
On rocks of Canada, New England, and on the high mountains of Carolina. *U. May, June. v. v.; v. s. in Herb. Lyon. specimen carolinianum.* Resembles *A. striata*, but is a larger and more upright plant.
- glabra.* 9. *A. glaberrima, erectiuscula, filiformi-multicaulis*; foliis subulato-linearibus planis patulis, pedicellis unifloris elongatis divaricatis, calycis foliolis ovalibus obtusiusculis lævibus petalis brevioribus. *Mich. fl. amer. 1. p. 274.*
Stellaria uniflora. Walt. fl. car. 141.
On rocks in North Carolina. *Michaux. U. +.*
- juniperina.* 10. *A. subpubescens, erecta, multicaulis, foliis subulatis*

subtriquetris pungentibus, panicula terminali dichotome-multiflora, calycis foliolis ovato-lanceolatis striatis mucronatis petalis vix duplo brevioribus.—*Willd. sp. pl.* 2. p. 725.

Icon. *Smithic. ined.* 1. t. 35.

In Labrador and Newfoundland. *W.* v. s. in *Herb. Banks.*

11. *A. pubescens*, cæspitoso-multicaulis; foliis setaceis, cauliculis 1—3-floris erectis, calycis foliolis linearibus subhirsutis petalis duplo brevioribus.—*Willd. sp. pl.* 2. p. 726.

Icon. *Jacq. austr.* 3. t. 272.

On the north-west coast of America. *Menzies. W.* v. s. in *Herb. Banks.*

12. *A. glabriuscula*, cæspitosa; cauliculis stricto-erectis, foliis subulatis pungentibus striatis, floribus dense-fasciculatis, calycibus subulatis striatis, petalis brevissimis.—*Willd. sp. pl.* 2. p. 727.

Icon. *Jacq. austr.* 2. t. 182.

In Canada. *W.* v. s. in *Herb. Lambert. specimen Hort. Kew.*

13. *A. glabra*, humifusa; foliis linearibus carnosis internodiis multo longioribus, stipulis membranaceo-connatis vaginantibus, staminibus quinque, capsulis globosis.—*Pers. syn.* 1. p. 504.

A. rubra *β.* *Mich. fl. amer.* 1. p. 274.

A. marina. *Smith fl. brit.* 2. p. 480?

On the sea-coast, in salt-marshes: Canada to Carolina.

W. June, July. v. v. Flowers pale-red.

laricifolia.

fasciculata.

canadensis.

IV. TETRAGYNIA.

390. MICROPETALUM. *Pers. syn.* 1. p. 509.

Spergulastrum. *Mich. fl. amer.* 1. p. 275.

1. *M. dense pubescens*; foliis lanceolatis in petiolum anagustatis, pedunculis subsolitariis elongatis demum reflexis, floribus apetalis.—*Pers. l. c. Mich. l. c.*

In the mountains of Virginia and Carolina. *W.* June, July. v. v.

- lanceolatum.* 2. *M. glabrum*; foliis lanceolatis utrinque angustatis, floribus paniculatis, petalis ovatis brevissimis.—*Pers. l. c. Mich. l. c.*
On moist rocks: Canada to Pennsylvania. ♀. July. *v. v.*
- gramineum.* 3. *M. glaberrimum*; foliis linearibus erectis, panicula terminali laxa, pedicellis filiformibus, petalis lanceolatis longitudine calycis.—*Pers. l. c. Mich. l. c.*
Near springs and shady rocks: New York to Virginia. ♀. June, July. *v. v.*
A. fasciculata probably belongs to this genus.

V. PENTAGYNIA.

391. SPERGULA. *Gen. pl.* 798.

- arvensis.* 1. *S. foliis filiformibus verticillatis, panicula dichotoma, pedunculis fructiferis reflexis, seminibus reniformibus.*
Willd. sp. pl. 2. *p.* 818.
Icon. Fl. dan. 1033. *Engl. bot.* 1535.
In sandy fields: Pennsylvania, New Jersey, &c. ☉.
June, July. *v. v.*
- saginoïdes.* 2. *S. foliis oppositis subulatis nudis, pedunculis solitariis longissimis glabris.* *Smith fl. brit.* 2. *p.* 504.
Icon. Engl. bot. 2105.
In sandy fields: Carolina. ☉. June, July. *v. s. in Herb. Enslen.*

392. CERASTIUM. *Gen. pl.* 797.

- vulgatum.* 1. *C. hirsutum, viscidum, cæspitosum; foliis ovatis, petalis oblongis calyce subæqualibus, floribus pedunculo longioribus.* *Smith fl. brit.* 2. *p.* 496. *Willd. sp. pl.* 2. *p.* 811.
Icon. Engl. bot. 789. *Faill. par. t.* 30. *f.* 3.
In dry fields and among rocks; frequent: New England to Pennsylvania. ☉. April—June. *v. v.* The flowers of the whole genus are white.
- viscosum.* 2. *C. hirsutum, viscosum, diffusum; foliis lanceolato-oblongis obtusiusculis, petalis obovatis calyce vix longioribus, floribus pedunculo brevioribus.*—*Willd. sp. pl.* 2. *p.* 812.

Icon. *Engl. bot.* 790. *Vaill. par. t.* 30. *f.* 1.

In pastures and on old walls : Canada to Carolina. ♀.
May—Sept. *v. v.*

3. *C. hirsutum*, viscidum ; foliis ovato-oblongis acutis, petalis calyce brevioribus emarginatis, pedunculis calyce longioribus, floribus pentandris.—*Willd. sp. pl.* 2. *p.* 812. *semidecandrum.*

Icon. *Engl. bot.* 1630. *Vaill. par. t.* 30. *f.* 2.

On dry, barren, and sunny hills ; frequent : Pennsylvania and Virginia. ☉. May, June. *v. v.*

4. *C. pubescens*, cæspitosum ; foliis lineari-lanceolatis obtusis basi ciliatis internodiis brevioribus, petalis obcordatis calyce duplo longioribus, calycis foliolis obtusis. —*Willd. sp. pl.* 2. *p.* 813. *arvense.*

Icon. *Fl. dan.* 626. *Engl. bot.* 93. *Vaill. par. t.* 30. *f.* 4.

On dry hills and rocks ; frequent : Pennsylvania, &c. ♀.
May—Aug. *v. v.* Flowers large.

5. *C. tenuissime pubescens*, cæspitosum ; foliis angustolinearibus internodiis longioribus, petalis obovatis emarginatis calyce acuto subtriplo longioribus. *tenuifolium.*

On the banks of Schuylkill and Delaware, Pennsylvania. ♀. May, June. *v. v.* Resembles the foregoing one very much.

6. *C. hirsutum* ; foliis linearibus internodiis longioribus divaricatis, pedunculis terminalibus elongatis bis 3-cho- *elongatum.*
tomis, bracteis oppositis ovatis, petalis emarginatis calyce acuto duplo longioribus, capsulis subglobosis.

On the plains of Columbia river. *M. Lewis.* ♀. April. *v. s. in Herb. Lewis.*

393. AGROSTEMMA. *Gen. pl.* 795.

1. *A. hirsuta* ; calyce corollam superante, petalis integris nudis. *Willd. sp. pl.* 2. *p.* 805. *Githago.*

Icon. *Fl. dan.* 576. *Engl. bot.* 741.

Common *Cockle* is frequently found among the grain, but is not indigenous in America. ☉. June, July. *v. v.*

394. LYCHNIS. *Gen. pl.* 796.

1. *L. glabra* ; floribus densis umbellato-capitatis, petalis bifidis, floribus tetragynis.—*Willd. sp. pl.* 2. *p.* 809. *alpina.*

Icon. *Fl. dan.* 65. *Hall. helv.* 1. *t.* 7.

In Labrador and Hudson's Bay. *U. v. s. in Herb. Dickson. nec non Banks.* About a span high; flowers red, with membranaceous bracteas.

395. OXALIS. *Gen. pl.* 794. Wood-Sorrel.

- Acetosella.* 1. *O. acaulis*; scapo unifloro foliis longiore, foliis ternatis dilatato-obcordatis, lobis rotundatis, stylis longitudine staminum interiorum, radice dentata.—*Willd. sp. pl.* 2. p. 780.
Icon *Fl. dan.* 980. *Engl. bot.* 762.
In shady woods: Canada *Michx.* On the high mountains of Pennsylvania and New York round the roots of old trees. *P. U. May. v. v.* Flowers large, white, with red veins and yellow at the bottom: the petals are cuneate, emarginate, and narrower than the European species.
- violacea.* 2. *O. acaulis*; scapo umbellifero, pedicellis subpubescentibus, floribus mutantibus, foliis ternatis obcordatis glabris, calycis laciniis apice callosis, stylis staminibus exterioribus brevioribus.—*Willd. sp. pl.* 2. p. 786.
Icon. *Jacq. oxal. t.* 80. *f.* 2. *Jacq. hort.* 2. *t.* 180. *Pluk. alm. t.* 102 *f.* 4.
In shady woods, on the side of hills, in fertile soil: New England to Carolina. *U. April, May. v. v.* Flowers pink-coloured.
- Lyon.* 3. *O. tota sericeo-pilosa*; caule ramoso decumbente, pedunculis bifloris petiolis longioribus, foliis ternatis bilobo-obcordatis, laciniis rotundatis divaricatis, petalis cuneatis, siliquis tomentosis calyce lanceolato duplo longioribus.
On Cumberland Island, Georgia. *Lyon. U. June. v. s. in Herb. Lyon.* Flowers yellow.
- corniculata.* 4. *O. tota pubescens*; caule ramoso diffuso seu procumbente, pedunculis umbellatis petiolis brevioribus, foliis ternatis obcordatis, petalis obcuneatis apice erosis, stylis longitudine staminum interiorum.—*Willd. sp. pl.* 2. p. 800.
Icon. *Jacq. oxal. t.* 5. *Salisb. in act. soc. linn. lond.* 2. *t.* 23. *f.* 5. *O. pusilla.*
In cultivated grounds: Canada to Carolina. *⊙. U. May—Oct. v. v.* Flowers yellow; the American plant has larger flowers than the European; in every other respect they are very much alike.

5. *O. tota hirsuta*; caule erecto ramoso, pedunculis umbelliferis petiolis brevioribus, foliis ternatis obcordatis, petalis obovatis, stylis longitudine staminum interiorum.—*Willd. sp. pl. 2. p. 800.*

stricta.

O. ambigua. *Salisb. in act. soc. linn. lond. 2. t. 23. f. 4.*

O. corniculata. *Fl. dan. t. 873.*

Icon. *Jacq. oxal. t. 4. Dill. elth. t. 221. f. 4.*

In cultivated grounds: Pennsylvania to Virginia. ♀.
June, July. *v. v.* Flowers yellow.

6. *O. hirsuta*; caule folioso erecto hirsuto, pedunculis umbelliferis foliis longioribus, foliis ternatis obcordatis, corollis emarginatis. *Willd. sp. pl. 2. p. 799.*

Dillenii.

Icon. *Dill. elth. t. 221.*

In Carolina. *Dillenius.* ☉. +. Flowers yellow, larger than the preceding one, with which it generally is confounded.

396. PENTHORUM. *Gen. pl. 790.*

1. *P. caule ramoso, angulato*; foliis lanceolatis subsessilibus inæqualiter dense-serratis, spicis terminalibus paniculatis alternis cymosisque, seminibus scrobiformibus.—*Willd. sp. pl. 2. p. 770.*

sedoides.

Icon. *Act. ups. 1744. t. 2.*

In ditches and small ponds: New England to Carolina.

♀. June, July. *v. v.* Flowers white or pale yellow.

In the Herbarium of A. B. Lambert, Esq. is a second species, brought by Sir George Staunton from China, which I distinguish by the following characters: *Penthorum chinense*, caule simplici tereti, foliis elongato-lineari-lanceolatis subpetiolatis inæqualiter serratis, spicis cymosis terminalibus, seminibus ovatis corneis.

397. SEDUM. *Gen. pl. 789.*

1. *S. erectum, glabrum, 1-2-unciale*; foliis alternis teretiusculis oblongis, floribus ad summitatem paucioribus alternis subpedicellatis. *Mich. fl. amer. 1. p. 276.*

pusillum.

In North Carolina, on flat rocks. *Michaux.* On the east banks of the Shanadoah River, Virginia. *P.*
♀. June, July. *v. v.* Flowers white, with eight stamina.

2. *S. glabrum*; caulibus assurgentibus, foliis sparsis planiuscule linearibus obtusis, cyma polystachya, floribus sessilibus octandris.—*Mich. fl. amer. 1. p. 277.*

pulchellum.

- On rocks near Knoxville. *Michaux*. 2. July. +
Flowers purple. Resembles *S. reflexum*.
- stenopetalum*. 3. *S. glabrum*; caulibus assurgentibus, foliis sparsis congestis adnato-sessilibus compresso-subulatis acutis, cyma terminali trichotoma dichotoma, spicis recurvatis, floribus sessilibus 10-andris, petalis linearibus calyce multo longioribus.
On rocks on the banks of Clark's river and Kooskoosky. 2. June, July. *v. s. in Herb. Lewis*. Flowers golden yellow; has some affinity with *S. reflexum*.
- ternatum*. 4. *S. pumilum*, repens; foliis planis rotundato-spathulatis ternis, cyma subtristachya, floribus sessilibus 8-andris, centro 10-andro.—*Mich. fl. amer.* 1. p. 277.
S. saxatile floribus albis &c. *Clayt. virg.* 891.
S. americanum. *Herb. Banks*.
On rocks in the western parts of Pennsylvania, Virginia, and Carolina. 2. May, June. *v. v.* An elegant little species; flowers white.
- telephioides*. 5. *S. foliis planis ovalibus utrinque subacutis dentatis, corymbo multiplici fasciculato*. *Mich. fl. amer.* 1. p. 277.
On rocks on high mountains: Virginia and Carolina. 2. June, July. *v. v.* Flowers pale purple.

VI. DECAGYNIA.

398. PHYTOLACCA. *Gen. pl.* 800.

- decandra*. 1. *P. foliis ovatis utrinque acutis, floribus decandris decagynis*.—*Willd. sp. pl.* 1. p. 822.
Icon. Dill. elth. t. 339. *f.* 399. *Pluk. alm. t.* 225. *f.* 3.
In open woods and old fields: New England to Carolina. 2. June, July. *v. v.* Flowers white, on red peduncles; berries black, and give an elegant purple colour to any liquor. The young sprouts in spring give a fine vegetable for the table, resembling asparagus. The plant is known by the name of *Poke-weed*.

XI. ICOSANDRIA.

I. MONOGYNIA.

399. CACTUS. *Cal.* superus, monophyllus, imbricatus. *Cor.* multiplex. *Stigm.* multifidum. *Bacca* 1-locularis, polysperma.
400. BARTONIA. *Cal.* superus, 5-fidus. *Cor.* polypetala. *Caps.* cylindrica, 1-locularis, apice operculatim 3—5-valvis. *Recept.* 3—5. parietalia, duplici serie seminifera.
401. DECUMARIA. *Cal.* superus, 8—12-fidus. *Pet.* 8—12. *Caps.* 7—10-locularis, polysperma.
402. PHILADELPHUS. *Cal.* superus, turbinatus, 4—5-fidus. *Pet.* 4—5. *Styl.* 4-fidus. *Caps.* 4—5-locularis, polysperma.
403. CHRYSOBALANUS. *Cal.* inferus, campanulatus, 5-fidus. *Pet.* 5. *Stylus* lateralis. *Drupæ* nux ovata, 5-falcata, 5-valvis, 1-sperma.
404. PRUNUS. *Cal.* inferus, campanulatus, 5-fidus, deciduus. *Pet.* 5. *Stylus* terminalis. *Drupæ* nux suturis prominulis.
405. TIGAREA. *Cal.* inferus, campanulatus, 5-partitus. *Pet.* 5. *Caps.* folliculiformis, sutura laterali dehiscens. *Sem.* unicum.
406. LYTHRUM. *Cal.* inferus, tubulosus, 12-dentatus, basi æquali. *Pet.* 6. æqualia. *Caps.* 2-locularis, polysperma.
407. CUPHEA. *Cal.* inferus, tubulosus, 6—12-dentatus, basi hinc gibbus. *Pet.* 6. inæqualia. *Caps.* 1-locularis, hinc cum calyce longitudinaliter dehiscens.

II. DI-PENTAGYNIA.

408. FOTHERGILLA. *Cal.* inferus, truncatus, obsolete
• crenatus. *Cor.* 0. *Germen* bifidum. *Styli* 2. *Caps.*
2-locularis. *Sem.* solitaria, ossea.

409. *AGRIMONIA*. *Cal.* inferus, 5-dentatus, altero obvallatus. *Pet.* 5. *Styli* 2. *Sem.* 2. in fundo calycis.
410. *CRATÆGUS*. *Cal.* superus, 5-fidus. *Pet.* 5. *Styli* 1—5. *Bacca* seu *Pomum* 2—5-spermum. *Sem.* ossea.
411. *PYRUS*. *Cal.* superus, 5-fidus. *Pet.* 5. *Styli* 5. *Pomum* 5-loculare, polyspermum. *Sem.* cartilaginea.
412. *SORBUS*. *Cal.* superus, 5-fidus. *Pet.* 5. *Styli* 3. *Bacca* 3-sperma. *Sem.* cartilaginea.
413. *SPIRÆA*. *Cal.* inferus, 5-fidus. *Pet.* 5. *Styli* 5. *Caps.* polyspermæ.

III. POLYGYNIA.

414. *ROSA*. *Cal.* urceolatus, collo coarctatus, 5-fidus. *Pet.* 5. *Sem.* plurima, hispida, calycis interioris lateri affixa.
415. *RUBUS*. *Cal.* patens, 5-fidus. *Pet.* 5. *Bacca* composita, acinis monospermis.
416. *DALIBARDA*. *Cal.* patens, 5-fidus. *Pet.* 5. *Pistilla* 5—8. *Styli* longi, filiformes, decidui. *Sem.* exsucca.
417. *DRYAS*. *Cal.* patens, 8-fidus. *Pet.* 8. *Sem.* plurima: arista lanata.
418. *GEUM*. *Cal.* 10-fidus. *Pet.* 5. *Sem.* aristata: arista plerumque geniculata.
419. *POTENTILLA*. *Cal.* 10-fidus. *Pet.* 5. *Sem.* subrotunda, receptaculo parum exsucco affixa.
420. *COMARUM*. *Cal.* 10-fidus. *Pet.* 5. calyce minora. *Recept.* seminum ovatum, spongiosum, persistens.
421. *FRAGARIA*. *Cal.* 10-fidus. *Pet.* 5. *Recept.* seminum ovatum, baccatum, deciduum.
422. *CALYCANTHUS*. *Cal.* 1-phyllus, urceolatus, squarrosus, foliolis coloratis. *Cor.* calycina. *Styli* plurimi. *Stigm.* glandulosa. *Sem.* plurima, caudata, intra calycem succulentum.

I. MONOGYNIA.

399. CACTUS. Gen. pl. 838.

1. *C. articulato-prolifer*; articulis compressis ovatis, spinis setaceis. — *Willd. sp. pl.* 2. p. 943.

Opuntia.

Icon *Knorr thes.* 1. t. F. a.

In pine-barrens and sandy fields: New Jersey to Carolina. $\frac{1}{2}$. June, July. *v. v.* Flowers large, yellow; berries red, eatable, known by the name of *Prickly Pears*.

There are two or three more species growing on the Missouri; but having had no opportunity to see them myself, I only mention it here, to draw the attention of the botanists in those regions towards them.

400. BARTONIA. Sims in bot. mag. 1487.

1. *B. germine folioso, seminibus nudis.*

ornata.

B. decapetala Sims l. c.

On chalky soil and arid volcanic grounds, on the borders of the Missouri. *M. Lewis.* ♂. July, Aug. *v. s. in Herb. Lewis.*

Radix biennis, fibrosa. *Caulis* ramosus, teres. *Rami* patentés, scabri. *Folia* alterna, semi-amplexicaulia, oblonga, basi dilatata, superne sensim angustiora, inciso dentata seu subpinnatifida, utrinque scabra, glaucescentia. *Flores* magni, albi, ex axillis superioribus, solitarii, pedunculati. *Pedunculi* foliosi, folio breviores. *Calyx* superus campanulatus, 5-partitus; laciniis ovatis, longissime acuminatis, petalis paulo brevioribus. *Petala* 5. alba, lanceolato-oblonga, acuta, unguiculata. *Stamina* numerosa, filiformia, petalis breviora. *Antheræ* luteæ, oblongæ, biloculares. *Germen* inferum, oblongum, foliis pinnatifidis calyce brevioribus ornatum. *Stylus* staminibus longior, filiformis. *Stigma* simplex. *Capsula* cylindrica, calyce coronata, apice operculatum 5-valvis. *Semina* oblonga, plana.

This beautiful plant, whose large white flowers open during the night and spread a most agreeable odour, was discovered in the year 1804, on the white bluffs near the Maha village, by the late M. Lewis, Esquire. In 1807 I made a drawing and description of it, for

the publication of that gentleman's Tour across the Continent of America to the Pacific Ocean. In 1812, Mr. Nuttall, on his return from a journey in those parts, brought seeds and specimens of this and another species to London; and having by those means the living plants, I agreed with Mr. Nuttall to dedicate it to the memory of Dr. B. S. Barton, of Philadelphia, our mutual friend; under which name it was published in the Botanical Magazine. Since that publication, Mr. Nuttall, whose name has occurred in several pages of this work, with all the credit due to his valuable discoveries, has found himself rather offended at not having given him all the exclusive credit of discovery, which with justice and propriety to the memory of M. Lewis, Esq. I never could do.

nuda.

2. *B. germine nudo, seminibus alatis. Sims l. c.*

On the banks of the Missouri. *Nuttall*. ♂. July, Aug. *v. v.* This species has smaller flowers, and the leaves are not so glaucous as the foregoing: in every other respect the above description is applicable to the present one, with little deviation. The number of petals is variable, from ten to fifteen.

401. DECUMARIA. *Gen. pl.* 815.

barbara.

1. *D. foliis ovato-oblongis utrinque acutis obsolete serratis. Willd. enum. p. 516. Willd. sp. pl. 2. p. 850.*

In South Carolina. ♀. July, Aug. *v. v.* Stem climbing; flowers in corymbose panicles, white, very sweet-scented.

sarmentosa.

2. *D. foliis ovatis acutis basi rotundatis, apice serratis. Willd. enum. 516. Willd. sp. pl. 2. p. 850.*

Forsythia scandens. Walt. fl. car. . . .

Icon. Bosc. in act. hist. nat. paris. 1. t. 13.

In deep cedar-swamps of Virginia and Carolina; particularly plentiful in the Dismal-swamp, near Norfolk. ♀. July, Aug. *v. v.* This climbing shrub resembles the first species, but grows taller, and is in every other respect larger in all its parts. It ascends, in company of *Zizyphus volubilis*, the tallest cypress trees in those swamps.

402. PHILADELPHUS. *Gen. pl.* 840.

1. *P. foliis ovatis acuminatis integerrimis, calycis laciniis acutis, stylo staminibus longiore indiviso, stigmatibus quatuor oblongis.*—*Willd. sp. pl.* 2. p. 948.
Icon. Catesb. car. 2. t. 84. *Bot. mag.* 1478.
 On the banks of rivers in South Carolina. $\frac{1}{2}$. June, July. *v. v.* An elegant shrub : flowers large, white. *inodorus.*
2. *P. foliis ovatis acutis subintegerrimis, margine ciliatis, calycis laciniis acutis, stylo longitudine staminum 3-fido, stigmatibus tribus.* *Lewisii.*
 On the waters of Clark's river. $\frac{1}{2}$. July. *v. s. in Herb. Lewis.* The flowers are smaller than the preceding species.
3. *P. foliis ovatis acuminatis denticulatis, axillis venarum subtus fasciculato-pilosis, calycis laciniis acuminatis, stylo staminibus longiore indiviso, stigmatibus quatuor linearibus.*—*Willd. enum.* 511. *grandiflorus.*
P. inodorus. Hortul.
 On river banks in South Carolina and Georgia. $\frac{1}{2}$. June, July. *v. v.* This is generally found in most gardens, under the name of *P. inodorus*, which is by far a more scarce plant.

403. CHRYSOBALANUS. *Gen. pl.* 850.

1. *C. foliis subcuneatim oblongis vel etiam oblanceolatis subtus lanuginoso-incanis, petalis subrotundo-ob-ovalibus, staminibus glabris, fructibus oblongo-ovatis.*—*Mich. fl. amer.* 1. p. 283. *oblongifolius.*
Icon. Bartr. iter, t.
 In the barren sands of Georgia and Florida. $\frac{1}{2}$. May, June. *v. s. in Herb. Lyon.* Flowers white, very small, in large panicles; they are generally dioicous : the fruit is the size of a common plum. This shrub runs with its branches under ground, without making any fibres, for a considerable distance; and its side branches appear from one to two feet above ground, as a separate small shrub, by which more properly it might be considered as a tree under ground.

404. PRUNUS. *Gen. pl.* 849.

1. *P. floribus racemosis, racemis erectis elongatis, foliis deciduis ovali-oblongis acuminatis inæqualiter duplicato-* *virginiana.*

dentatis utrinque glabris, petiolis subquadriglandulosis.
— *Willd. sp. pl.* 2. p. 985.

P. rubra. *Ait. kew* 2. p. 162.

Icon. *Willd. arb. t.* 5 f. 1. *Mich. arb. t.*

In woods, frequent: Canada to Florida. ♀. April, May.
v. v. A handsome tree: flowers white, as all the following are; berries red. The wood is very useful and handsome, and is manufactured into elegant furniture.

serotina.

2. *P. floribus racemosis, racemis laxis, foliis deciduis simpliciter serratis, serraturis infimis subglandulosis, costa media basin versus barbata.*— *Willd. sp. pl.* 2. p. 986.

P. virginiana. *Mill. dict. n.* 3. *Du Roi herb.* 2. p. 191.

Icon. *Willd. arb. t.* 5. f. 2. *Wangh. amer. t.* 14. f. 33.

In mountain woods: Pennsylvania to Carolina. ♀. May, June. v. v. Resembles the first species very much.

canadensis.

3. *P. floribus racemosis, foliis deciduis eglandulosis lanceolatis rugosis argute serratis utrinque subpubescentibus, in petiolum attenuatis.*— *Willd. sp. pl.* 2. p. 986.

Icon. *Pluk. alm. t.* 158. f. 4.

In North America. *Sp. pl.* ♀. +. I strongly suspect this to be nothing more than *P. hiemalis*, No. 9.

caroliniana.

4. *P. floribus racemosis, foliis sempervirentibus oblongo-lanceolatis mucronatis serratis eglandulosis lævigatis.*— *Willd. sp. pl.* 2. p. 987.

In South Carolina and Georgia. ♀. May. v. v. A handsome evergreen shrub, resembling *P. lusitanica*.

semperflorens.

5. *P. floribus racemosis, racemis foliosis pendulis, calycibus serratis, foliis ovatis serratis glabris basi glandulosis.*— *Willd. sp. pl.* 2. p. 992.

P. serotina. *Roth catalect.* 1. p. 58.

In the western parts of Virginia. ♀. May. v. v. A small shrub.

lorealis.

6. *P. floribus corymbosis, pedicellis elongatis, foliis ovali-oblongis acuminatis eroso-denticulatis membranaceis glabris, fructu subovato.*— *Mich. fl. amer.* 1. p. 286.

Icon *Mich. arb. t.*

In Canada and on the high mountains of New England and Pennsylvania. ♀. May, June. v. v. A very handsome small tree; the wood exquisitely hard and fine grained; the cherries hang in clusters, are small, red, and agreeable to the taste, but occasion an astringency in the mouth, from which they are called *Choke-cherries*.

7. *P. umbellis sessilibus aggregatis multifloris tandem paniculæformibus, foliis oblongo-lanceolatis serratis glabris basi biglandulosis, ramulis punctatis.*—*Willd. sp. pl. 2. p. 993.*

P. lanceolata. Willd. arb. t. 3. f. 3.

In woods and near plantations: New England to Virginia. *h.* April, May. *v. v.* This resembles *P. Cerasus* very much: the cherries are small, and agreeable to eat.

8. *P. umbellis sessilibus solitariis paucifloris, foliis deciduis ovatis acuminatis inæqualiter argute serratis utrinque glabris, petiolis biglandulosis.*—*Willd. sp. pl. 2. p. 993.*

Icon *Bot. mag.* 1117.

In Canada and on the Allegany mountains. *h.* May, June. *v. v.*

9. *P. umbellis sessilibus aggregatis paucifloris, calycis lacinii lanceolatis, stipulis setaceo-compositis, foliis oblongo-ovalibus obovalibusve abrupte promissèque acuminatis, fructu subovato.*—*Mich. fl. amer. 1. p. 284.*

In Canada and on the western mountains of Virginia and Carolina. *h.* May. *v. v.* The fruit small, black, extremely astringent, but eatable in winter; called *Black Choke-cherry*.

10. *P. umbellis sessilibus aggregatis paucifloris, foliis ovato-ellipticis acutis utrinque glabris argute serratis basi biglandulosis.*—*Willd. sp. pl. 2. p. 993.*

In the western parts of Pennsylvania and Virginia. *h.* May. *v. v.* A shrub about four or five feet high; the fruit very indifferent, black, the size of a large pea.

11. *P. umbellis sessilibus aggregatis paucifloris, pedunculis calycibusque pubescentibus, foliis brevi-ovalibus serrulatis basi plerumque biglandulosis, drupa sphærica, nuce subrotundo-ovoidea.*

P. sphærocarpa. Mich. fl. amer. 1. p. 284.

On the sea-coast of New England. *Michaux.* In the western parts of Pennsylvania on the borders of lakes. *P. h.* May. *v. v.* A small shrub; flowers smaller than any other American species; fruit brownish-purple, very astringent.

12. *P. umbellis sessilibus aggregatis paucifloris, calycibus acutis, ramis virgatis teretibus, foliis angusto-lanceo-*

nigra.

hiemalis.

pygmæa.

pubescens.

pumila.

latis superne serratis subtus pallidis.—*Willd. sp. pl.* 2. p. 990.

Icon. *Mill. ic. t.* 89. f. 2.

In low grounds and swamps: Pennsylvania and Virginia. $\frac{1}{2}$. May. *v. v.* A small shrub of the appearance of *Amygdalus nana*; fruit red, very acid.

depressa.

13. *P. umbellis sessilibus aggregatis paucifloris, calycibus obtusis, ramis angulatis depresso-prostratis, foliis cuneato-lanceolatis rariter serratis glabris subtus glaucis, fructu ovato.*

P. pumila. Mich. fl. amer. 1. p. 286.

On the sandy shores of rivers and lakes: Canada to Virginia. $\frac{1}{2}$. May. *v. v.* This low shrub, which spreads its branches very much, and does not rise above one foot from the ground, is known by the name of *Sand-cherries*. The fruit is black, small, and agreeably tasted.

Chicasa.

14. *P. gemmis aggregatis bifloris, pedicellis brevissimis, calycibus glabris, laciniis obtusis, foliis oblongo-ovalibus acutis seu acuminatis serrulatis, fructu subgloboso, ramis spinescentibus glaberrimis.*—*Mich. fl. amer.* 1. p. 284.

P. insititia. Walt. fl. car. 146.

In Virginia and Carolina. $\frac{1}{2}$. April, May. *v. v.* Known by the name of *Chicasaw Plum*. The fruit is yellow and agreeably tasted. It is mentioned in Michaux's Flora, that it was introduced by the Indians; which probably may be the case, as it generally only occurs where ancient camps of Indians have been.

maritima.

15. *P. pedunculis subsolitariis, foliis ovato-oblongis acuminatis duplicato-serratis.* *Willd. enum.* 519.

P. acuminata, fruticosa; ramulis glabris, foliis oblongo-ovalibus longiuscule acuteque acuminatis, calyce glabro, drupa longiuscule pedunculata ovata acuminata. *Mich. fl. amer.* 1. p. 284?

On the sea-coast: New Jersey to Carolina. $\frac{1}{2}$. May. *v. v.* Fruit the size of a pigeon's egg, very good to eat, dark purple.

Susquehanna.

16. *P. pedunculis solitariis, foliis obovato-oblongis subtus glaucis serratis basi integerrimis.* *Willd. enum.* 519.

On the banks of the Susquehanna, Pennsylvania, $\frac{1}{2}$. May. +. It appears to me that this species approaches very near to No. 13.

p. 262

Jugarcia tridentata.

Cenothera minima.

17. *P. pedunculis solitariis, foliis ellipticis glabris, fructibus pendulis, ramis subinermibus. Willd. sp. pl. 2. p. 997.*
Near habitations, frequent. $\frac{1}{2}$. April, May. *v. v.* This is the common *Myrabolan Cherry*, and had its origin from America, according to authors.

cerasifera.

18. *P. pedunculis solitariis, foliis elliptico-lanceolatis subtus pubescentibus, fructibus rectis, ramis spinosis. Willd. sp. pl. 2. p. 997.*

spinosa.

The common *Black Thorn*, or *Sloe*, is frequently found in hedge-rows, particularly in Pensylvania, but has been introduced from Europe.

40. **TIGAREA.** *Aubl. guj. 2. p. 917. Pursh in linn. trans. v. 11.*

1. *f. foliis in apice ramulorum confertis, obcuneatis, 3-dentatis, supra villosis subtus cano-tomentosis, floribus terminalibus solitariis brevissime pedunculatis.*

tridentata.

In the prairies of the Rocky-mountains and on the Columbia river. $\frac{1}{2}$. July. *v. s. in Herb. Lewis.* Flowers yellow.

Frutex ramosissimus. Cortex cinerea. Ramuli brevissimi, gibbosi, apice fasciculatim foliosi. Gemmæ: squamis subrotundis, glabris, fuscis. Folia cuneiformia, quasi in petiolum angustata, apice 3-dentata seu 3-fida, laciniis lateralibus acutis, intermedia subemarginata, margine revoluta, supra strigoso-villosa, subtus cano-tomentosa, subtriplinervia, semiuncialia. Pedunculi brevissimi, terminales, solitarii, uniflori. Flores lutei, magnitudine Cratægi oxyacanthi. Calyx extus hirsutissimus, laciniis acutis. Petala obovata, subungiculata, calyce paulo longiora. Filamenta circiter 20. longitudine petalorum. Antheræ oblongæ, biloculares. Germen oblongum, hirsutum, longitudine staminum. Stylus brevis, obliquus. Stigma simplex. Capsula immatura calyce persistente cincta.

This singular shrub approaches the nearest to *Tigarea* of Aublet: the seeming difference in character may only be owing to the imperfect state of the specimens Aublet's description seems to be made of. It certainly deserves to be separated from *Tetracera*, though generally united with that genus.

406. LYTHRUM. *Gen. pl.* 825.

- Salicaria.* 1. *L. pubescens*; foliis oppositis ternatisque sessilibus lanceolatis basi cordatis, floribus terminalibus verticillato-spicatis 12-andris, capsulis oblongis.—*Willd. sp. pl.* 2. p. 865.
β. pubescens. Icon. *Fl. dan.* 671. *Engl. bot.* 1061.
 In wet meadows: Canada and New England. *¶*. July, Aug. *v. v.* About two feet high; flowers very showy, purple.
- verticillatum.* 2. *L. pubescens*; foliis oppositis lanceolatis petiolatis, floribus axillaribus corymbosis subverticillatim aggregatis decandris, fructibus globosis.—*Willd. sp. pl.* 2. p. 866.
Decodon aquaticum. *Gmel. syst.* 677.
Anonymos aquatica. *Walt. fl. car.* 137.
 In swamps: Canada to Florida; not common. *¶*. July, Aug. *v. v.* A showy perennial, from two or four feet high; the stems are declinate, and strike frequently roots on their summits; flowers large, fl. purple.
- virgatum.* 3. *L. foliis oppositis lanceolatis glabris, caule paniculato floribus axillaribus ternis pedicellatis 12-andris.*—*Willd. sp. pl.* 2. p. 865.
L. virgatum. *Walt. fl. car.* 120.
 In low sandy meadows and swamps. *Bosc.* *¶*. July Aug. *v. s. in Herb. Enslen.* Flowers pale purple. Walter in his *Flora Caroliniensis* has it as an hexandrous plant; which probably may be the case.
- alatum.* 4. *L. glaberrimum*; foliis oppositis ovato-oblongis acutis basi subcordatis arcte sessilibus, ramis virgatis 4-gonoalatis, floribus axillaribus solitariis sessilibus hexandris.
 In Lower Georgia. *Enslen.* *¶*. June, July. *v. s. in Herb. Enslen.* From three to four feet high; flowers small, purple.
- lineare.* 5. *L. glabrum, virgato-paniculatum*; foliis suboppositis linearibus, floribus axillaribus solitariis 6-andris.—*Willd. sp. pl.* 2. p. 868.
 Near the sea-coast of Virginia and Carolina. *¶*. July, Aug. *v. v.* Three or four feet high; flowers small, white.

407. CUPHEA. *Jacq. hort. 2. p. 83.*

1. *C. viscosa*; foliis oppositis petiolatis ovato-oblongis, floribus 12-andris lateralibus solitariis brevissime pedunculatis. *Willd. sp. pl. 2. p. 870.* *viscosissima.*
Balsamona Pinto. *Vandell. fasc. t. 3.*
Lythrum Cuphea. *Linn. suppl. 249.*
Lythrum petiolatum *Willd. sp. pl. 2. p. 867.*
Icon. Jacq. hort. 2. t. 177.
 In the mountains of Virginia and Kentucky. ☉. June, July. *v. v.*; *v. s.* in *Herb. Gronov.* Flowers, large, purple.

II. DI-PENTAGYNIA.

408. FOTHERGILLA. *Gen. pl. 922.*

1. *Fothergilla.* *Willd. sp. pl. 2. p. 1224.* *alnifolia.*
F. Gardeni Mich. fl. amer. 1. p. . . .
 α . *F. foliis cuneato-obovatis superne crenato-dentatis.* *obtusa.*
Icon. Bot. mag. 1341. Lam. illustr. 450.
 β . *F. foliis ovato-oblongis basi subcordatis superne crenato-dentatis.* *major.*
Icon. Bot. mag. 1342.
 γ . *F. foliis ovatis acutis subintegerrimis.* *acuta.*
F. Gardeni. Jacq. ic. rar. 1. t. 100.
 In shady woods, on the side of hills: Virginia to Carolina. $\frac{1}{2}$. March, April. *v. v.* Flowers in close spikes or catkins, white. The different varieties here mentioned are rather to be considered as distinct species.

409. AGRIMONIA. *Gen. pl. 830.*

1. *A. hirsuta*; foliis interrupte-pinnatis, impari petiolato, foliolis obovatis inciso-argute-dentatis glabriusculis, spicis virgatis, floribus subsessilibus, petalis calyce duplo longioribus, fructibus obconicis divaricato-hispidis basi sublævibus.—*Willd. sp. pl. 2. p. 875.* *Eupatoria.*
Icon. Fl. dan. 580. Curt. lond. 32.
 Near the edge of woods on sunny hills: Pennsylvania to Carolina. $\frac{1}{4}$. June, July. *v. v.* Flowers yellow.

- parviflora.* 2. *A. hirsuta*; foliis interrupte pinnatis, impari sessili, foliolis plurimis lineari-lanceolatis inciso-serratis, spicis virgatis, floribus brevissime pedicellatis, petalis calyce sesquolongioribus, fructibus subrotundis divaricato-hispidis.—*Willd. sp. pl.* 2. p. 876.
In woods, on the side of hills: Pensylvania to Virginia. 2. June, July. *v. v.* Flowers small, yellow.
- suaveolens.* 3. *A. hirsutissima*; foliis interrupte-pinnatis, impari sessili, foliolis plurimis lanceolatis argute serratis subtus hirsutis, spicis virgatis viscosis, floribus brevi-petiolatis, petalis calyce duplo longioribus, fructibus obconicis divaricato-hispidis.
On high mountain-meadows: Virginia and Carolina. 2. July, Aug. *v. v.* Grows to the height of five feet; is covered with very long brownish hairs: the flower spikes are likewise very closely covered with viscous hairs, and have a very agreeable balsamic scent: the flowers are small and pale yellow.
- striata.* 4. *A. spicis virgatis, fructibus reflexis turbinatis sulcato-striatis apice tantum et quasi coronatum hispidis.* *Mich. fl. amer.* 1. p. 287.
In Canada. *Michaux.* 2. +. Flowers white.

410. CRATÆGUS. *Gen. pl.* 854.

- apiifolia.* 1. *C. spinosa*; foliis deltoideis inciso-lobatis, lobis acutis inciso-dentatis, corymbi pedicellis subsimplicibus, calycis tubo oblongo, laciniis subserratis.—*Mich. fl. amer.* 1. p. 287.
C. Oxyacantha. *Walt. fl. car.* 147.
In low woods and on the banks of rivers: Virginia and Carolina; plentifully on the banks of Roanoke-river, Southampton. 2. May, June. *v. v.* This shrub, with its elegant foliage and scarlet berries, would be one of the finest ornaments to be introduced into the gardens, particularly for the purpose of making hedges; which object has been so much neglected in North America.
- spathulata.* 2. *C. ramulis spinescentibus fasciculatim foliosis, foliis parvis longissime deorsum angustatis subspathulatis trifidis, corymbis paucifloris, pedicellis brevibus, calycibus tomentosis.*—*Mich. fl. amer.* 1. p. 288.
In dry woods, near rivers: Virginia and Carolina. 2. May, June. *v. v.* The thorns are very large and crooked; leaves small.

3. *C. spinosa*; foliis cordato-ovatis inciso-angulatis glabris acute-serratis, petiolis calycibusque pubescentibus glandulosis, petalis orbiculatis, floribus 5-gynis.—*Willd. sp. pl.* 2. p. 1000.
Mespilus æstivalis. Walt. fl. car. 148.
Icon. Pluk. alm. t. 46. f. 4.
 In woods and hedges: Canada to Carolina. ♀. April, May. *v. v.* Berries red, large, and agreeable to eat. *coccinea.*
4. *C. spinosa*; foliis cordato-ovatis basi truncatis inciso-angulatis glabris, petiolis calycibusque eglandulosis, floribus pentagynis. *Walt. fl. car.* 147.
C. corallina. H. P.
C. cordata. Willd. sp. pl. 2. p. 1000.
Mespilus acerifolia. Lam. encycl. 4. p. 442.
Mespilus Phœnopyrum. Linn. suppl. 254.
Mespilus cordata. Mill. ic. t. 179.
 In hedge rows and on the banks of rivers: Canada to Virginia. ♀. May, June. *v. v.* Berries small, scarlet. *populifolia.*
5. *C. spinosa inermisve*; foliis ovato-ellipticis inciso-serratis subplicatis subhirtis, calycibus villosiusculis, foliolis lineari-lanceolatis serratis, floribus trigynis. *Willd. sp. pl.* 2. p. 1001.
C. leucophleos. Mœnch. weissenst. p. 31. t. 2.
C. tomentosa. Du Roi herbk. 1. p. 183.
C. edulis. Loddiges catal.
Mespilus calpodendron. Ehrh. Beitr. 2. p. 67.
Mespilus latifolia. Lam. encycl. 4. p. 444.
 In rocky and gravelly woods, and on banks of rivers: Pennsylvania to Carolina. ♀. June. *v. s.* *pyrifolia.*
6. *C. spinosa*; foliis ellipticis inæqualiter serratis glabris, petiolis calycibusque glandulosis, laciniis calycis obtusis, baccis globosis 5-spermis.—*Willd. sp. pl.* 2. p. 1002.
C. prunifolia. Lam. encycl. 4. p. 443.
 In copses and dry swamps: Canada to Carolina. ♀. April, May. *v. v.* Fruit red, small. *elliptica.*
7. *C. spinosa*; foliis obovato-cuneiformibus angulatis glabris nitidis, petiolis stipulis calycibusque glandulosis, baccis ovalibus 5-spermis. *Willd. sp. pl.* 2. p. 1002.
C. sanguinea. Pall. fl. ross. 1. p. 25. t. 11.
Mespilus rotundifolia. Ehrh. Beitr. 3. p. 20.
 In Canada and on the Allegany mountains. ♀. April, May. *v. v.* Berries middle-sized, scarlet. M. Lewis, Esq. collected it on the Rocky-mountains. *glandulosa.*

- flava*. 8. *C. spinosa* ; foliis obovato-cuneiformibus sublobatis crenato-serratis, petiolis brevibus, stipulis cordatis calycibusque glandulosis, floribus subsolitariis, baccis turbinatis tetraspermis.—*Willd. sp. pl.* 2. p. 1002.
C. viridis. *Walt. fl. car.* 147.
C. glandulosa. *Mich. fl. amer.* 1. p. 288.
C. Michauxii. *Pers. syn.* 2. p. 38.
Mespilus flexispina. *Moench. weissenst.* p. 62. t. 4.
Mespilus caroliniana. *Lam. encycl.* 4. p. 442.
 In sandy, shady places : Virginia to Carolina. ♀. May.
v. v. Berries large, yellow, eatable ; flowers large.
- parvifolia*. 9. *C. spinosa* ; foliis cuneiformi-ovatis incisiss serratis subtomentosis, foliolis calycinis lanceolatis incisiss longitudine fructus, floribus solitariis 5-gynis, fructibus subturbinatis punctato-verrucosis.—*Willd. sp. pl.* 2. p. 1002.
C. tomentosa. *Sp. pl.* 682.
C. uniflora. *Du Roi herb.* 1. p. 184.
Mespilus Xanthocarpus. *Linn. suppl.* 254.
Mespilus laciniata. *Walt. fl. car.* 147.
 In sandy, shady woods : New Jersey to Carolina. ♀.
 May, June. *v. v.* A low shrub ; leaves small ; fruit large, greenish-yellow.
- punctata*. 10. *C. spinosa* inermisve ; foliis obovato-cuneiformibus subplicatis glabris incisiss serratis in petiolum decurrentibus, calycibus villosis, laciniis subulatis integerrimis, baccis subglobosis umbilico depresso.—*Willd. sp. pl.* 2. p. 1004.
C. Crus galli. *Du Roi herb.* 1. p. 195.
Mespilus cuneifolia. *Ehrh. Beitr.* 3. p. 21.
Mespilus cornifolia. *Lam. encycl.* 4. p. 444.
Icon. Jacq. hort. 1. t. 28.
- rubra*. α. *C. fructibus rubris*. *Ait. kew. ed.* 2. t. 3. p. 202.
aurea. β. *C. fructibus flavis*. *Ait. l. c.*
 In the woods and swamps of Virginia and Carolina. ♀.
 May, June. *v. v.* Is inclined to grow to a handsome tree ; berries yellow, with dark spots.
- Crus galli*. 11. *C. spinosa* ; foliis obovato-cuneiformibus subsessilibus nitidis coriaceis, corymbis compositis, foliolis calycinis lanceolatis subserratis, floribus digynis. *Willd. sp. pl.* 2. p. 1004.
C. hyemalis. *Walt. fl. car.* 147.
C. lucida. *Wangh. amer.* p. 53. t. 17. f. 42.
Mespilus lucida. *Ehrh. Beitr.* 4. p. 17.

Icon. *Trew ic. rar.* 2. t. 17.

α. *C. foliis obovato-cuneiformibus. Ait. kew. ed.* 2. t. 3. splendens.
p. 202. [lia.

β. *C. foliis oblongo-lanceolatis subcuneiformibus. Ait. l. c.* pyracanthifo-

γ. *C. foliis lanceolatis. Ait. l. c.* salicifolia.

In woods and hedges, on the banks of rivers, common :

Canada to Carolina. ½. April, May. v. v. Berries

small, scarlet.

411. PYRUS. *Gen. pl.* 858.

1. *P. inermis*; foliis obovato-oblongis acutis crenato-dentatis subtus tomentosis, rachi supra glandulosa, floribus corymbosis, calycibus tomentosis.—*Willd. sp. pl.* 2. p. 1012. *arbutifolia.*

Cratægus pyrifolia. Lam. encycl. 1. p. 83.

Mespilus arbutifolia. Sp. pl. 685.

Mespilus arbutifolia erythrocarpa. Mich. fl. amer. 1. p. 291.

Mespilus pumila. Schmidt arb. 88.

Icon. *Mill. ic.* 109.

In low copses and swamps; common : Canada to Carolina. ½. May, June. v. v. A low shrub; berries red; leaves more or less tomentose.

2. *P. inermis*; foliis obovato-oblongis acuminatis serratis subius glabris, rachi supra glandulosa, floribus corymbosis, calycibus glabris. *Willd. enum.* 525. *melanocarpa.*

Cratægus arbutifolia. Lam. encycl. 1. p. 83.

Mespilus arbutifolia. Schmidt arb. 86.

Mespilus arbutifolia melanocarpa. Mich. fl. amer. 1. p. 292.

In bogs of Canada and on the high mountains of Pennsylvania, Virginia, and Carolina. ½. May, June. v. v. Berries large, black, and resembling in taste those of *Vaccinium pensylvanicum*.

3. *P. inermis*; foliis oblongo-ellipticis cuspidatis adultis glabris, floribus racemosis, petalis linearibus lanceolatis, germinibus pubescentibus, calycinis segmentis glabris. *Willd. sp. pl.* 2. p. 1013. *Botryapium.*

Cratægus racemosa. Lam. encycl. 1. p. 84.

Mespilus canadensis. Sp. pl. 685.

Mespilus canadensis β. cordata. Mich. fl. amer. 1. p. 291.

Icon. *Schmidt arb.* 84.

In woods and hedges; frequent: Canada to Carolina.
 ♀. April, May. *v. v.* A small tree; leaves covered with a white tomentum, when young; berries black, very agreeably tasting.

ovalis.

4. *P. inermis*; foliis subrotundo-ellipticis acutis glabris, floribus racemosis, petalis obovatis, germinibus calycinisque segmentis pubescentibus. *Willd. sp. pl.* 2. p. 1014.

Cratægus spicata. Lam. encycl. 1. p. 84.

Mespilus Amelanchier. Walt. fl. car. 184.

Mespilus canadensis α. obovalis. Mich. fl. amer. 1. p. 291.

In swamps: New Jersey to Carolina. ♀. April, May. *v. v.* A small shrub; berries black and eatable.

sanguinea.

5. *P. inermis*; foliis ovalibus utrinque obtusis mucronatis tenuissime serratis basi subcordatis, racemis paucifloris, calycibus glabris, petalis linearibus obtusis.

Mespilus canadensis γ. rotundifolia. Mich. fl. amer. 1. p. 291.

In Canada, and on the banks of the Columbia. ♀. April, May. *v. v.* A small tree with blood-red branches; berries red, eatable.

Malus.

6. *P. umbellis sessilibus, foliis ovato-oblongis acuminatis serratis glabriusculis, unguibus calyce brevioribus, stylis glabris. Willd. sp. pl.* 2. p. 1017.

The *Common Apple-tree* frequently occurs in woods apparently wild, but has been seminated by birds.

coronaria.

7. *P. foliis lato-ovalibus basi rotundatis subangulatis serratis lævibus, pedunculis corymbosis.—Willd. sp. pl.* 2. p. 1018.

In woods and near plantations: Pennsylvania to Carolina. ♀. May. *v. v.* The *Sweet-scented Crab-tree*, the fruit of which is well known as a most excellent preserve for the table, is a very fine ornamental tree, not only for the beauty but particularly for the fine violet-scent of its flowers.

angustifolia.

8. *P. foliis lanceolato-oblongis basi acutis leviter crenatodentatis nitidis, pedunculis corymbosis.—Willd. sp. pl.* 2. p. 1020.

P. coronaria. Wangh. amer. t. 21. f. 47.

In low woods of Carolina. ♀. May. *v. v.* Resembles the foregoing species; the fruit very small.

412. SORBUS. *Gen. pl.* 855.

1. *S. foliis pinnatis, foliolis acutis subæqualiter serratis petioloque communi glaberrimis.* *Willd. enum.* 520. *americana.*
S. Aucuparia β . *Mich. fl. amer.* 1. p. 290.
 In Canada and on some of the northern mountains. $\frac{1}{2}$.
 May, June. *v. v.* Berries purple, not scarlet as in
 the European species.
2. *S. foliis pinnatis, foliolis acuminatis inæqualiter inciso-serratis petioloque communi glabris, serraturis setaceo-mucronatis.* *microcarpa.*
S. Aucuparia α . *Mich. fl. amer.* 1. p. 290.
 On the peaks of high mountains: New Jersey to Carolina. $\frac{1}{2}$. June. *v. v.* A large shrub; the young
 branches covered with a shining, dark brown gloss;
 berries small, scarlet. This species is very distinct
 from the Canadian *Sorbus*.

413. SPIRÆA. *Gen. pl.* 862.

* *Fruticosæ.*

1. *S. foliis lanceolatis argute-serratis glabris, racemo terminali composito paniculato, floribus 5-gynis.*—*Willd. sp. pl.* 2. p. 1055. *salicifolia.*
- α . *S. foliis lanceolatis, racemis paniculatis divaricatis, petalis albis cortice ramorum rubris.* *Ait. kew.* 2. p. 198. *paniculata.*
S. alba. *Ehrh. Beitr.* 7. p. 137.
Icon. Mill. ic. t. 257. f. 2.
- β . *S. foliis ovato-oblongis, racemis paniculatis, petalis albis cortice ramorum rufescente.* *Ait. l. c.* *latifolia.*
 In swamps and on the edge of ditches and slow-flowing rivers: Canada to Carolina; particularly on the mountains. $\frac{1}{2}$. June—Aug. *v. v.* This shrub is very variable in size, shape, and colour.
2. *S. foliis lanceolatis inæqualiter-serratis subtus tomentosis, racemo terminali composito confertifloro, floribus 5-gynis* —*Willd. sp. pl.* 2. p. 1056. *tomentosa.*
Icon. Schmidt arb. 57. *Pluk. alm. t.* 321. f. 5.
 In Canada and on the Allegany mountains: New York to Carolina. $\frac{1}{2}$. July—Sept. *v. v.* A small shrub; flowers red.
3. *S. foliis obovatis integerrimis seu apice dentatis glabris, umbellis sessilibus.*—*Willd. sp. pl.* 2. p. 1057. *hypericifolia.*
Icon. Schmidt arb. 56 & 57.

In dry swamps of Canada and New York. $\frac{1}{2}$. May.
v. v. Flowers white, small, and in great abundance.

chamædrifolia. 4. *S. foliis obovatis apice inciso-dentatis glabris, corymbis pedunculatis.*—*Willd. sp. pl.* 2. p. 1058.

Icon. *Schmidt arb.* 53.

media. β . *S. foliis utrinque subvillosis paucidentatis.* *Schmidt arb.* 54.

In Canada and on the north-west coast. $\frac{1}{2}$. May, June.
v. v.

betulifolia. 5. *S. foliis lato-ovatis inciso-serratis glabris, corymbis terminalibus compositis fastigiatis foliosis.*—*Pall. fl. ross.* 1. p. 33. t. 16.

In the mountains of Virginia. $\frac{1}{2}$. May--July. v. v.
Not above a foot high; flowers tinged with red. This species is very distinct from *S. ulmifolia Willd. sp. pl.* 2. p. 1058, to which it has been referred as a synonym.

otulifolia. 6. *S. foliis ovatis lobatis duplicato-dentatis crenatisve glabris, corymbis terminalibus confertifloris, floribus 3-gynis, capsulis inflatis.*—*Willd. sp. pl.* 2. p. 1059.

Icon. *Schmidt arb.* 32. *Rob. ic.* 134. *Comm. hort.* 1. t. 87.

On the banks of rivers, particularly in the mountains: Canada to Carolina. $\frac{1}{2}$. June, July. v. v. Flowers white; generally known by the name of *Nine-bark*.

capitata. 7. *S. foliis ovatis sublobatis duplicato-dentatis subtus reticulatis tomentosis, corymbis terminalibus congestis subcapitatis longissime pedunculatis, calycibus tomentosis.*

On the north-west coast. *Menzies.* $\frac{1}{2}$. June. v. s. in *Herb. Banks.* An imperfect specimen of this species I observed in the Lewisian Herbarium, gathered on the Columbia.

discolor. 8. *S. foliis ovatis lobatis dentatis subplicatis subtus niveo-tomentosis, paniculis terminalibus pedunculatis ramosissimis.*

On the banks of the Kooskoosky. $\frac{1}{2}$. June, July. v. s. in *Herb. Lewis.* A shrub about five feet high.

sorbifolia. 9. *S. foliis pinnatis, foliolis uniformibus serratis, floribus paniculatis.* *Willd. sp. pl.* 2. p. 1060.

Icon. *Schmidt arb.* 58. *Pall. fl. ross.* 1. t. 24.

On the north-west coast, and probably in Canada. $\frac{1}{2}$. July, Aug. v. v. A handsome small shrub; flowers white.

** *Herbaceæ.*

10. *S. foliis 2-3-pinnatis, spicis paniculatis, floribus 3-gynis dioicis.*—*Willd. sp. pl. 2. p. 1060.*
Icon. Pall fl. ross. 1. t. 26.
β. S. foliis lucidis, panicula oblonga, spicis gracilibus hermaphroditis.
In the mountains: Pennsylvania to Georgia. *℥*. June, July. *v. v.* Flowers white; a very elegant plant.
Aruncus.
11. *S. foliis pinnatis glabris, impari majore 7-lobo, lateralibus 3-lobis, corymbis proliferis.* *Willd. sp. pl. 2. p. 1062.*
S. palmata. Linn. suppl. 262.
Icon. Jacq. hort. 1. t. 88.
In fertile wet meadows: Virginia and Carolina. *℥*. July, Aug. *v. v.* A beautiful perennial; flowers red, in large clusters.
lobata.
12. *S. foliis ternatis lanceolatis serratis subæqualibus, stipulis linearibus integris, floribus terminalibus laxè paniculatis 5-gynis, calyce tubuloso campanulato.*—*Willd. sp. pl. 2. p. 1063.*
Gillenia trifoliata. Mœnch. meth. suppl. p. 286.
Icon. Mill. ic. 256. Bot. mag. 489.
In shady woods and on bogs: Canada to Florida; principally in the mountainous parts thereof. *℥*. June, July. *v. v.* A very fine perennial; flowers large, white. It may, with the following species, with all propriety form a distinct genus.
trifoliata.
13. *S. foliis ternatis lanceolatis inciso-serratis subæqualibus, stipulis foliaceis ovatis inciso-dentatis, floribus terminalibus laxè paniculatis 5-gynis, calyce campanulato.*—*Willd. enum. p. . . .*
β. S. foliis ternatis, foliolis pinnatifidis inciso-dentatis.
In shady woods: Kentucky and Tennessee. *℥*. June, July. *v. v.* Flowers resembling the former species. The variety *β.* appears very different; but, as I have not seen it in flower, I did not venture to make it a distinct species.
stipulacea.
incisa.

III. POLYGYNIA.

414. ROSA. *Gen. pl.* 863.*blanda.*

1. *R. germinibus globosis glabris, caulibus adultis pedunculisque laxibus inermibus, foliis (7) oblongis subæqualiter serratis glabris, petiolis glabris subaculeatis.*—*Willd. sp. pl.* 2. p. 1065.

Icon. *Andrews's roses. Miss Lawr. roses* 27.

In Canada, near Hudson's Bay, and on the river St. Lawrence. $\frac{1}{2}$. May—Aug. *v. v.* The younger branches are covered with straight red spines; the older ones unarmed and shining red.

parviflora.

2. *R. germinibus depresso-globosis pedunculisque hispidis, petiolis pubescentibus subaculeatis, caule glabro, aculeis stipularibus rectis, foliis elliptico-lanceolatis simpliciter serratis glabris, floribus subgeminatis.*—*Willd. sp. pl.* 2. p. 1068.

R. carolina. Du Roi hortk. 2. p. 335. *Mich. fl. amer.* 1. p. 295.

R. pensylvanica. Wungh. amer. p. 113.

R. humilis. Marsh. arb. 285.

In woods on the side of hills: New York to Carolina. $\frac{1}{2}$. June, July. *v. v.* About two feet high. There are a number of varieties of this species.

nitida.

3. *R. germinibus globosis, calycibus pedunculis ramisque hispidis, petiolis pilosiusculis inermibus, foliis (7) oblongo-lanceolatis utrinque nitidis glaberrimis.*—*Willd. enum.* 544.

In Pennsylvania and Virginia. $\frac{1}{2}$. June—Aug. *v. v.* Petals red, obcordate.

lucida.

4. *R. germinibus depresso-globosis pedunculisque subhispidis, petiolis glabris subaculeatis, caule glabro, aculeis stipularibus rectis, foliis ovato-lanceolatis obtusiusculis grosse serratis glabris nitidis, floribus subgeminis, calycinis foliis integris.*—*Willd. sp. pl.* 2. p. 1068.

R. carolina. Walt. fl. car. 149.

Icon. *Dill. elth. t.* 245. f. 316.

On the borders of swamps: New York to Carolina. $\frac{1}{2}$. July, Aug. *v. v.* From four to six feet high.

gemella.

5. *R. germinibus depresso-globosis pedunculisque glabris, floribus subgeminatis, foliis oblongis acutis opacis, pe-*

tiolis venisque subtus pubescentibus, aculeis uncinatis infra axillaribus caulinis geminatis.—*Willd. enum.* 544.

On dry sunny hills: New England to Carolina. $\frac{1}{2}$. July, Aug. *v. v.* A low shrub; flower red, large.

6. *R. germinibus subglobosis glabriusculis, pedunculis hispidis, petiolis subaculeatis, caule glabro, aculeis sparsis rectis, foliolis (3—5) ovato-oblongis acutis serratis, supra glabriusculis, subtus tomentosis, superioribus simplicibus, floribus subternatis, stipulis linearibus, calycis laciniis tomentosis linearibus vix laciniatis.*

Lyonii.

In Tennessee. *Lyon.* $\frac{1}{2}$. July. *v. s. in Herb. Lyon.* Flowers pale red; leaves small, with coloured veins.

7. *R. germinibus globosis, petiolis nervisque aculeatis, ramis glabris, aculeis geminis sparsisque, foliolis (3—5) acuminatis glabris, calycinis foliolis subpennatis setigeris.*—*Mich. fl. amer.* 1. p. 295.

setigera.

In swamps of Virginia and Lower Carolina. $\frac{1}{2}$. June, July. *v. v. c. fr.* From five to eight feet high.

8. *R. germinibus globosis pedunculisque subhispidis, petiolis pilosis subaculeatis, caule glabro, aculeis stipularibus subuncinatis, foliolis (5—7) oblongo-lanceolatis acutis argute serratis subtus glaucis, floribus corymbosis.*—*Willd. sp. pl.* 2. p. 1009.

carolina.

R. corymbosa. *Ehrh. Beitr.* 4. p. 21.

R. virginiana. *Du Roi herb.* 2. p. 353.

R. pensylvanica. *Mich. fl. amer.* 1. p. 296.

Icon. *Andrews's roses.* *Miss Lawr. roses* 3. 24. 36. 54. 66. 68.

In swamps and on the banks of ponds: New England to Virginia. $\frac{1}{2}$. June, July. *v. v.* From five to six feet high. There are a great number of varieties of this species.

9. *R. germinibus globosis pedunculisque hispidulis, calycibus inexpandis muticis, foliis ternatis subtus pubescentibus, petiolis glandulosis aculeatisque, caule glabro, aculeis stipularibus sparsisque subaduncis, floribus corymbosis.* *Ait. kew. ed.* 2. t. 3. p. 260.

rubifolia.

In North America. *Mason.* $\frac{1}{2}$. June, July. +.

10. *R. germinibus ovatis promixte hispidissimis, calycis laciniis integris, aculeis geminatis recurvis, petiolis subaculeatis, foliolis (3—5) lanceolato-ovalibus subener-*

laevigata.

vibus lævigatis, stipulis angustis subulato-mucronatis.
—*Mich. fl. amer.* 1. p. 295.

In shady woods of Georgia. $\frac{1}{2}$. v. v. s. fl. An evergreen; climbing to a great height.

- suaveolens.* 11. R. germinibus ovatis, pedunculis petiolisque glanduloso-hispidis, petiolis subaculeatis, caule glabro, aculeis sparsis rectis tenuibus, foliolis (5—7) ovatis serratis subtus vix glanduloso-pilosis, ramulis unifloris, calycis laciniis integris.

R. Eglanteria americana. *Andrews's roses*, cum icone.

- pendulina.* 12. R. inermis; germinibus oblongis, pedunculis petiolisque hispidis, caule ramisque glabris, fructibus pendulis.
Willd. sp. pl. 2. p. 1076.

Icon. *Miss. Laur. ros.* 9. *Dill. elth. t.* 245. f. 317.

In North America. $\frac{1}{2}$. May, June. v. v. in *Hortis*. Known by the name of *Rose without Thorns*. I never have seen this plant in its indigenous state.

415. RUBUS. Gen. pl. 864.

* *Fruticosi.*

- Idæus.* 1. R. foliis quinato-pinnatis ternatisque rhombeo-ovatis acuminatis subtus tomentosis, petiolis canaliculatis, caule aculeato-hispido, floribus subpaniculatis.—*Willd. sp. pl.* 2. p. 1081.

Icon. *Fl. dan.* 788.

In hedge-rows: Canada to Pennsylvania. $\frac{1}{2}$. May, June. v. v. The *Wild Raspberry* has a number of varieties.

- villosus.* 2. R. pubescens, hispidus aculeatusque; foliis 3—5-digitatis, foliolis ovato-oblongis acuminatis serratis utrinque pubescentibus, caulibus petiolisque aculeatis, calyce brevi acuminato, racemo laxo, pedicellis solitariis.—*Willd. sp. pl.* 2. p. 1085.

In old fields and commons; frequent: New England to Carolina. $\frac{1}{2}$. June, July. v. v. Known by the name of *Black-berries*.

- strigosus.* 3. R. inermis, rigide hispidissimus; foliolis 3. aut pinnato-quinatis ovalibus basi obtusis acuminatis subtus lineatis et candido-tomentosis, calycibus acuminatis, floribus in apice ramulorum axillaribus solitariis, pedunculis calycibusque hispidis.—*Mich. fl. amer.* 1. p. 297.

R. pensylvanicum. *Lam. encycl.* 6. p. 246.

On the mountains: Canada to Virginia. $\frac{1}{2}$. June, July. v. v. An upright shrub; berries very agreeable to eat.

4. *R. glabriuscula* ; foliis digitatis denis quinis ternatisque, foliolis lanceolatis utrinque nudis argute serratis, caule inermi, bracteis lanceolatis.—*Willd. sp. pl. 2. p. 1085.*
canadensis.
 In rocky barren woods : Canada and New England. $\frac{1}{2}$. June, July. *v. v.* Stem and old branches purple.
5. *R. ramis petiolis pedunculisque tomentosis sparsim recurvato-aculeatis, foliis 3—5-digitatis, foliolis cuneato-obovatis superne inæqualiter dentatis plicatis margine integerrimo revolutis subtus tomentosis, racemis terminalibus paniculatis, pedicellis divaricatis nudiusculis.*
cuneifolius.
R. parvifolius. Walt. fl. car. 149.
 In sandy fields and woods : New Jersey and Carolina. $\frac{1}{2}$. June, July. *v. v.* A straggling briar of a gray aspect ; the berries hard and dry.
6. *R. ramis petiolisque glaucis et aculeatis, foliis ternis ovalibus acuminatis sublobatim duplicato-serratis subtus cano-tomentosis, petiolis teretibus, aculeis recurvatis, racemis terminalibus.*—*Willd. sp. pl. 2. p. 1082.*
occidentalis.
Icon. Dill. elth t. 247. f. 319.
 In rocky and mountainous situations : Canada to Carolina. $\frac{1}{2}$. May, June. *v. v.* The stem is smooth, and covered with a blueish dew. Berries black or red ; known in the gardens by the name of *Virginian Raspberry.*
7. *R. sarmentoso-procumbens ; caulibus petiolis pedunculisque setis rigidis hispidissimis, foliis ternatis inciso-serratis nudis, intermedio pedicellato.*—*Willd. sp. pl. 2 p. 1083.*
hispidus.
 In Canada. *Kalm.* $\frac{1}{2}$. +. Resembles some of the following species, particularly No. 9.
8. *R. sarmentoso-procumbens ; petiolis pedunculisque recurvato aculeato-hispidis, stipulis subulatis, foliis ternatis quinatisve oblongo-ovalibus acutis inæqualiter serratis subpubescentibus, pedicellis solitariis elongatis, petalis obovatis calyce triplo longioribus.*—*Mich. fl. amer. 1. p. 296.*
trivialis.
 In old fields, common : New England to Carolina. $\frac{1}{2}$. May, June. *v. v.* Flowers large ; berries black, large, and very agreeably tasting ; known by the name of *Dewberries.*
9. *R. sarmentoso-procumbens ; caule tereti petiolisque recurvato-aculeatis, foliis ternatis glabris inæqualiter*
flagellaris.

serratis, intermedio ovato basi cuneato, lateralibus rhombeis.—*Willd. enum.* 549.

R. trivialis. *Att. kew. ed. 2. t. 3. p.* 269.

In fields and sandy woods: Virginia and Carolina. $\frac{1}{2}$. June, July. *v. v.* The leaves are smaller, smooth, and equal on the base; petals more orbicular than No. 8.

inermis.

10. *R. caule petiolis pedunculisque inermibus, foliis ternatis ovatis acutis inæqualiter serratis subtus tomentosis, lateralibus subincisis, stipulis setaceo-subulatis.*—*Willd. enum.* 548.

R. hispidus, Walt. fl. car. 149?

In Pennsylvania. $\frac{1}{2}$. +.

spectabilis.

11. *R. inermis glabra; foliis ternatis ovatis acutis duplicato-inæqualiter serratis subtus pubescentibus, pedunculis terminalibus unifloris solitariis, petalis ovatis.*

On the banks of the Columbia. *M. Lewis.* On the north-west coast. *Menzies.* $\frac{1}{2}$. April, May. *v. s. in Herb. Lewis. nec non Banks.* The figure was taken from a specimen in the collection of A. B. Lambert, Esq.

Frutex elegans, 4-5-pedalis. Rami geniculati, subflexuosi, teretes, lævigati. Gemmæ alternæ, ferrugineæ, squamæ obtusæ. Folia e gemmis subfasciculata, ternata. Foliola ovato-oblonga, acuta, inciso-duplicato-serrata, supra glabra, subtus pubescentia, lateralia basi obliqua, intermedio petiolato. Petioli pubescentes, aculeo parvo recurvato uno alterove instructi. Stipulæ lineares. Pedunculi terminales uniflori solitarii. Flores magnitudine R. odorati, profunde et amœne purpurascens. Calyx laciniis oblongis, brevi-acuminatis, pubescentibus. Petala ovata, calyce plusquam duplo longiora.

odoratus.

12. *R. inermis, erectus, viscido-hispidus; foliis simplicibus acute 3-5-lobatis, corymbis terminalibus divaricatis, calycibus appendiculatis, petalis suborbiculatis.*—*Willd. sp. pl.* 2. p. 1085.

Icon. Bot. mag. 323. *Mill. ic.* 223. *Corn. canad. t.* 159. In the woods of Canada and on the Allegany mountains: New York to Carolina. $\frac{1}{2}$. June, July. *v. v.* A fine ornamental shrub; flowers rose-coloured or crimson; berries yellow, of a very fine flavour and large size, but scarcely ever produced in the gardens.

Rubus spectabilis.

**** Subherbacei.**

13. *R. herbaceus*, pubescens; flagellis reptantibus, foliis ternatis rhombeis acutis inciso-dentatis nudis, impari petiolato, floribus subternis, pedicellis elongatis.—*Mich. fl. amer.* 1. p. 298. *saxatilis.*
β. canadensis.
In Canada, and on the mountains of New York to Virginia. $\mathcal{U}$. June, July. *v. v.* Berries small, black.
14. *R. fruticescens*, pilis rigidis hispidus; foliis ternatis rotundato-obovalibus serratis nudis, stipulis setaceis, racemis floriferis subcorymbosis paucifloris, bracteis ovatis, pedicellis elongatis.—*Mich. fl. amer.* 1. p. 298. *obovalis.*
In swamps, among sphagnum, on the mountains: New York to Carolina. $\mathcal{U}$. May—July. *v. v.* Berries with only a few large grains black and sweet.
15. *R. herbaceus*, pusillus; caule inermi subunifloro, foliis ternatis glabris obtuse serratis, petalis subrotundis emarginatis.—*Willd. sp. pl.* 2. p. 1088. *arcticus.*
Icon. Engl. bot. 1585. *Bot. mag.* 132.
In Labrador and near Hudson's Bay. $\mathcal{U}$. May, June. *v. s. in Herb. Lambert.*; *v. v. in Hortis.* Flowers of a beautiful rose colour; berries amber, very delicious.
16. *R. herbaceus*, pusillus; caule inermi unifloro, foliis ternatis glabris argute serratis, petalis oblongis integris, stylis approximatis. *Smith exot. bot.* 2. p. 53. t. 56. *pistillatus.*
R. acaulis. Mich. fl. amer. 1. p. 298.
In bogs of Canada, and on the north-west coast. $\mathcal{U}$. June, July. *v. s. in Herb. Dickson.* Resembles the foregoing one very much.
17. *R. herbaceus*, pusillus, repens; foliis pedato-quinatis incis, pedunculis filiformibus medio bracteatis, calycibus glabriusculis reflexis. *Smith ic. ined. f.* 3. p. 63. t. 63. *pedatus.*
On the north-west coast. *Menzies. U. v. s. in Herb. Banks.* Petals white? This species may probably belong to the genus *Dalibarda*.
18. *R. herbaceus*, pusillus; caule inermi unifloro erecto, foliis simplicibus cordatis trilobis rugoso-venosis, petalis lanceolatis.—*Willd. sp. pl.* 2. p. 1089. *Smith ic. ined. f.* 3. t. 64. *stellatus.*
On the north-west coast. *Menzies. U. v. s. in Herb. Banks.* Flowers purple.
19. *R. herbaceus*, pusillus; caule inermi unifloro erecto, *Chamæmorus.*

foliis simplicibus subreniformibus rotundato-lobatis, petalis oblongis.—*Willd. sp. pl.* 2. p. 1090.

Icon. *Engl. bot.* 716. *Fl. dan.* 1. *Linn. fl. lapp. t.* 5. f. 1.

In sphagnum bogs of Canada, and on high mountains of New England. *¶*. May, June. *v. v.* Flowers white; berries yellow or amber-coloured.

416. DALIBARDA. *Mich. fl. amer.* 1. p. 299.

repens.

1. *D. villosa* ; stolonibus reptantibus, foliis simplicibus cordatis crenatis, pedunculis unifloris. *Lam. encycl.* 6. p. 250.

D. violacoides. *Mich. fl. amer.* 1. p. 299.

Rubus Dalibarda. *Willd. sp. pl.* 2. p. 1090.

Icon. *Mich. l. c.* t. 27. *Smith ic. ined. t.* 20. *Lam. illustr. t.* 441. f. 3.

In shady woods and bogs of Canada, and on the high mountains of New England and Pensylvania. *¶*. May, June. *v. v.* Flowers white.

fregaroides.

2. *D. foliis ternatis, foliolis cuneatis serrato-incisis ciliatis, pedunculis multifloris, calycis tubo obconico.*—*Mich. fl. amer.* 1. p. 300. t. 28.

Dryas trifoliata. *Pallas in Herb. Lambert.*

In shady beech-woods of Canada, and on the Allegany mountains. *¶*. May, June. *v. v.* Flowers yellow.

417. DRYAS. *Gen. pl.* 868.

octopetala.

1. *D. foliis ovato-oblongis grosse-dentatis rugosis subtus niveo-tomentosis, pedunculis unifloris.*—*Willd. sp. pl.* 2. p. 1118.

Icon. *Engl. bot.* 451. *Fl. dan.* 31.

On high mountains in the north-west parts of Canada. *¶*. July, Aug. *v. s.* Flowers large, white.

tenella.

2. *D. microphylla* ; foliis ovatis acutis basi cordatis integrimis planis subtus niveo-tomentosis, pedunculis unifloris.

Icon. *Egede, descrip. of Greenland, p.* 42. t. B. f. 3.

On the white hills of New Hampshire. *Prof. Peck.* *¶*. July. *v. s. in Herb. Banks.* Flowers not half the size of the former.

418. GEUM. *Gen. pl.* 867.

1. *G. hirsutum*; foliis omnibus interrupte pinnatis, impari ampliore, foliolis ovatis dentatis, stipulis incis, calycis laciniis 5. alternis linearibus brevibus, floribus erectis, petalis suborbiculatis calyce longioribus, aristis nudis uncinatis.—*Willd. sp. pl.* 2. p. 1113. *strictum.*
G. canadense. *Murr. in comment. gætt.* 5. p. 33. f. 4. *B.*
G. aleppicum. *Jacq. ic. rar.* 1. t. 93.
 In wet meadows and bogs: Canada and New York. $\mathcal{U}$.
 May, June. *v. v.* Flowers large, yellow.
2. *G. hirsutissimum*; foliis omnibus pinnatis, foliolis sub-*agrimonoides.*
 æqualibus inæqualiter inciso-dentatis, stipulis ovatis subintegris, floribus erectis, calycis laciniis subæqualibus, petalis ovalibus longitudine calycis.
G. laciniatum. *Murr. in comm. gætt.* 5. p. 36. t. 2?
 On the rocky banks of the Susquehanna, Pennsylvania, and on the upper parts of the Missouri. $\mathcal{U}$. June, July. *v. v.* Flowers white.
3. *G. pubescens*; foliis radicalibus pinnatis, caulinis ternatis, summis simplicibus trifidis, stipulis inferioribus incis, floribus erectis, petalis longitudine calycis, aristis uncinatis nudis apice pilosis.—*Willd. enum.* 556. *allum.*
G. canadense. *Jacq. hort.* 2. p. 82. t. 175.
G. carolinianum. *Walt. fl. car.* 150?
 On the banks of rivers: Pennsylvania to Carolina. $\mathcal{U}$.
 June, July. *v. v.* Flowers white.
4. *G. pubescens*; foliis radicalibus caulinisque infimis ternatis, superioribus lanceolatis, stipulis ovatis subintegris, floribus erectis, petalis calyce brevioribus, aristis uncinatis nudis apice pilosis tortuosis.—*Willd. sp. pl.* 2. p. 1113. *virginianum.*
Icon. Murr. in comm. gætt. 5. p. 32.
 In shady woods, common: Canada to Carolina. $\mathcal{U}$.
 July, Aug. *v. v.* Flowers white, very small.
5. *G. subpaniculatum multiflorum*; foliis caulinis subsessilibus tripartitis, stipulis integris, petalis cuneato-obcordatis, aristis prorsus pubescentibus medio geniculatis.—*Mich. fl. amer.* 1. p. 300. *geniculatum.*
 In Canada. *Michaux.* $\mathcal{U}$. +.
6. *G. pubescens*; caule simplici, foliis radicalibus interrupte-pinnatis, caulinis trifidis, floribus nutantibus, petalis longitudine calycis, aristis plumosis superne nudius-*rivale.*

culis minutissime uncinatis.—*Willd. sp. pl.* 2. p. 1115.

Mich. fl. amer. 1. p. 301.

Icon. Fl. dan. 722. *Engl. bot.* 106.

In wet boggy meadows: Canada and on the New York and Pennsylvania mountains. 4. June, July. v. v. Flowers yellowish purple. The flowers are smaller, the petals more rounded on the top, and the leaves with deeper incisions, than the European plant: compared in a living state, they may be found different species.

ciliatum.

7. *G. pubescens*; caule simplici, foliis glabriusculis marginibus ciliatis, inferioribus pinnatis, caulinis pinnatifidis, superioribus palmatis: laciniis linearibus incis, floribus corymbosis.

On the banks of the Kooskoosky. 4. June. v. s. in *Herb. Lewis*. An elegant species; flowers resembling those of No. 6.

radiatum.

8. *G. hirsutissimum*; caule simplici, foliis radicalibus pinnatis, impari amplissimo reniformi radianti-nervoso dentato, caulinis amplexicaulibus inciso-laceris, pedunculis axillaribus solitariis, aristis glabris apice simplicibus.—*Mich. fl. amer.* 1. p. 300.

G. camtschaticum. Pallas in Herb. Lambert.

On high mountains of Carolina. *Michaux*. On the north-west coast. *Menzies*. Likewise a handsome plant; flowers yellow.

Peckii.

9. *G. glabriusculum*; caule unifloro, foliis radicalibus reniformibus circinatis basi subtruncatis inciso-dentatis, petiolis longissimis interdum appendiculatis, petalis longitudine calycis.

On the white hills of New Hampshire. *Prof. F.* 4. July. v. s. in *Herb. Banks*.

anemonoides.

10. *G. glabrum*; caule unifloro, foliis pinnatis, foliolis reniformibus apice dentatis, aristis rectis villosis.—*Willd. sp. pl.* 2. p. 1117.

Dryas anemonoides. Pall. itin. 3. app. n. 92. nota 2. t. Ee. f. 4.

Dryas pentapetala. Sp. pl. 717.

Caryophyllata Kamtschatica. Lam. encycl. 1. p. 395.

Icon. Egede, descrip. of Greenland, p. 42. t. 2.

On the north-west coast and the Kuril Islands. *Merk.* 4. July. v. s. in *Herb. Lambert. specimen Pallasianum.*

419. POTENTILLA. *Gen. pl.* 866.

* *Foliis ternatis.*

1. *P. assurgens* glabriuscula; stipulis subulatis, foliis ternatis oblongo-cuneiformibus apice tridentatis adpresso-pilosiusculis, corymbo laxo paucifloro, petalis oblongo-obovatis calyce longioribus.—*Willd. sp. pl.* 2. p. 1110.

Icon. Ait. kew. 2. t. 9. *Engl. bot.* . . .

On rocks in Canada and on the highest peaks of the Allegany mountains, particularly at Grandfather-mountains, Carolina. *W.* June, July. *v. s. in Herb. Dickson.*; *v. v. in Hortis.* Flowers white. According to Willdenow, and the figure of *P. retusa* in the Flora Danica, which is quoted as a synonym, the flowers are yellow; but this figure, if correct, presents most certainly a different plant, as the petals are round, and only the length of the calyx.

2. *P. assurgens*, hirsuta; stipulis ovatis integerrimis, foliis ternatis, foliolis sessilibus approximatis ambitu inciso-dentatis utrinque hirsutis, pedicellis paucis terminalibus elongatis unifloris, petalis cuneato-oblongis emarginatis calyce duplo longioribus.

In Labrador. *Colmaster. W. v. s. in Herb. Dickson.*
A small species; flowers large in proportion.

3. *P. assurgens*, lanato-tomentosa; stipulis ovatis integerrimis, foliis ternatis, foliolis sessilibus approximatis ambitu inciso-dentatis supra hirsutis subtus niveo-tomentosis, pedunculis paucis terminalibus unifloris, petalis lato-obcordatis calyce vix longioribus.—*Willd. sp. pl.* 2. p. 1109.

Icon. Gmel. sib. 3. t. 36. f. 1. *Gunn. norv. t.* 3. f. 1.

In Labrador. *Colmaster. W. June, July. v. s. in Herb. Dickson.* Flowers yellow.

4. *P. assurgens*, sericeo-villosissima; stipulis latis membranaceis integerrimis, foliis ternatis, foliolis sessilibus approximatis ambitu inciso-dentatis, supra villis nitidis adpresso-villosis, subtus cano-tomentosis, pedunculis brevibus aggregatis, petalis obcordatis calyce longioribus.

P. villosa. Pallas in Herb. Lambert.

On the north-west coast. *W. v. s. in Herb. Lambert.*

This species approaches in general character very near to the foregoing one, but in habit they differ strikingly; the last is a more robust plant, covered with shin-

ing silky hairs, and the flowers are more than 'double the size of the former, which is a small plant covered with a white woolly tomentum. It approaches also to *P. subacaulis* Willd. *sp. pl.* 2. p. 1111. according to description, but Gmelin's figure is extremely different from it.

- hirsuta*. 5. *P. erecta*, simplex, hirsutissima; stipulis lanceolatis integris, foliis ternatis obovalibus laciniato-incisis, panícula pauciflora, pedicellis brevibus, petalis calyce minoribus.—*Mich. fl. amer.* 1. p. 303.
In Canada and the western parts of New York. ♀. July, Aug. *v. v.* Flowers white, small.

- norwegica*. 6. *P. erecta*, ramosa, pubescens; stipulis ovalibus dentatis, foliis ternatis rhombéo-lanceolatis inciso-dentatis, ramis dichotomis, pedicellis brevibus axillaribus solitariis, petalis calyce brevioribus.—*Willd. sp. pl.* 2. p. 1109.
Icon. *Fl. dan.* 171.
In fields of Canada and New York. ☉. June, July. *v. v.* Flowers pale yellow.

** *Foliis digitatis*.

- pumila*. 7. *P. erecta*, subacaulis, pubescens; foliis quinatis cuneiformibus apice dilatatis incisibus subtus lanuginosis, pedunculis petiolo brevioribus simplicibus unifloris, petalis rotundatis calyce vix longioribus.—*Lam. encycl.* 5. p. 594.
In dry fields and pastures: Canada to Virginia. ♀. May—July. *v. v.* It has a strong resemblance to *P. verna*; flowers pale yellow.

- canadensis*. 8. *P. procumbens*, subramosa, candicanti-sericea; stipulis ovatis incisibus, foliis quinatis cuneato-obovalibus inciso-dentatis, caule adscendente hirsuto, pedunculis solitariis elongatis, calycis laciniis lineari-lanceolatis, petalis orbiculatis subintegris longitudine calycis.—*Willd. sp. pl.* 2. p. 1106.
In fields and pastures, common: Canada to Carolina. ♀. May—Aug. *v. v.* Has the appearance of a strawberry plant; flowers bright yellow.

- simplex*. 9. *P. erecta*, simplex, hirsuta; stipulis incisibus, foliis quinatis oblongo-ovalibus grosse-serratis superioribus sessilibus, pedunculis axillaribus solitariis elongatis unifloris, calycis laciniis lineari-lanceolatis, petalis rotundato-obcordatis calyce longioribus.—*Mich. fl. amer.* 1. p. 303.

P. sarmentosa. *Willd. enum.* 554.

P. caroliniana. *Lam. encycl.* 5. p. 595.

In fields, meadows, and dry woods: Canada to Carolina.

¶. May—Aug. *v. v.* Flowers yellow.

10. *P. decumbens*, filiformis, hirsuta; stipulis lineari-oblongis integris, foliis radicalibus septenatis quinatisque lineari-cuneiformibus dentatis, pedunculis axillaribus solitariis unifloris, petalis retusis calycis longitudine.—*Willd. sp. pl.* 2. p. 1103.

opaca

Icon. *Jacq. ic. rar.* 91.

In Labrador. ¶. June, July. *v. s.* in *Herb. Banks.*

Flowers yellow, small.

11. *P. erecta*, ramosa, glabriuscula; foliis quinatis, foliolis pinnatifidis, laciniis integris acutis, floribus terminalibus subcorymbosis.

dissecta.

Near Hudson's Bay. ¶. *v. s.* in *Herb. Banks.*

12. *P. erecta*, ramosa, niveo-tomentosa; stipulis ovatis acutis, foliis quinatis cuneatis inciso-dentatis subtus tomentosis, floribus terminalibus corymbosis, petalis retusis vix calyce longioribus.—*Willd. sp. pl.* 2. p. 1101.

argentea.

Icon. *Fl. dan.* 865. *Engl. bot.* 89.

In Canada, and on rocks in New Hampshire and Vermont. ¶. June, July. *v. v.* Flowers small, yellow.

*** *Foliis pinnatis*.

13. *P. erecta*, ramosissima, hirsuta; stipulis ovatis integris, foliis quinato-pinnatis, foliolis lineari-oblongis planis, petiolis longis, ramulis 1-2-floris, calycis laciniis 5. alternis linearibus, cæteris lato-ovatis acutis, petalis obovatis calyce longioribus.—*Willd. sp. pl.* 2. p. 1094.

fruticosa.

Icon. *Engl. bot.* 88. *Amm. ruth. t.* 17.

On the banks of rivers in Canada, and on the waters of the Rocky-mountains. *Lewis*. June—Aug. *v. v.* in *Hortis*; *v. s.* in *Herb. Lewis*. Flowers large, yellow. This shrub is from three to five feet high.

14. *P. erecta*, ramosissima, hirsutissima; stipulis ovatis integris, foliis quinato-pinnatis, foliolis lineari-oblongis margine revolutis, petiolis brevibus, corymbis terminalibus dichotomis dense-multifloris, calycis laciniis subæqualibus, petalis subrotundis longitudine calycis.

floribunda.

P. fruticosa alpestris. *Pallas* in *Herb. Lambert*.

Icon. *Amm. ruth. t.* 18. f. 1.

In bog meadows and on the borders of lakes : Canada and on the mountains of New York and New Jersey. η . July, Aug. *v. v.* This is a low-growing shrub, not above eighteen inches high. Though it appears to be no more than a variety of the preceding, the difference of habit is so great, that I was persuaded to propose it as a distinct species : both cultivated near one another, will decide whether it shall be adopted as such or not.

- Anserina*. 15. *P. repens*; foliis interrupte-pinnatis numerosis incisoserratis sericeis subtus niveo-tomentosis, pedunculis solitariis unifloris.—*Willd. sp. pl.* 2. p. 1095.

Icon. *Engl. bot.* 861.

On the banks of rivers and lakes : Pensylvania, New York, and Canada. $\mathcal{U}$. May—Sept. *v. v.* Flowers yellow, large. Specimens from Labrador in the Herbarium of A. B. Lambert, Esq. seem to differ in the form of its petals from the European plant ; they are obovate, and longer than the calyx.

- pensylvanica*. 16. *P. erecta*, mollissime subcandicanti-villosa ; foliis pinnatis, foliolis oblongis obtusis subsemi-pinnatifidis tomentosis, panicula stricta multiflora, calycis tomentosi laciniiis semiovalibus. *Mich. fl. amer.* 1 p. 304. *Willd. sp. pl.* 2. p. 1099.

Icon. *Jacq. hort. t.* 189.

- rigosa*. β . *P. cano-pubescent* ; foliis pectinato-dentatis margine revolutis, floribus corymbosis.

P. strigosa. *Pallas in Herb. Lambert.*

Icon. *Gmel. sib. 3. t.* 34. f. 1.

In Canada and New England. β . on the Missouri. $\mathcal{U}$. June, July. *v. v.* β . *v. s. in Herb. Lewis.* Flowers yellow. The variety β . appears to be a distinct species.

- supina*. 17. *P. procumbens*, dichotoma ; foliis pinnatis, foliolis oblongis profunde dentatis, pedunculis lateralibus solitariis unifloris patulis.—*Willd. sp. pl.* 2. p. 1099.

Icon *Gmel. it. 1. t.* 27. f. 2. *Pluk. alm. t.* 106. f. 7.

In overflowed places, on the banks of rivers : Canada to Pensylvania, principally in the western parts thereof. ☉. June—Aug. *v. v.* Flowers small, yellow.

420. COMARUM. *Gen. pl.* 869.

- palustre*. 1. *Comarum*. *Willd. sp. pl.* 2. p. 1119.

Icon. *Fl. dan.* 636. *Engl. bot.* 172.

In swamps: Canada and on the banks of rivers and lakes in the western parts of New York and Pennsylvania. ♀. June, July. v. v. Flowers dark purple.

421. FRAGARIA. Gen. pl. 865.

1. F. calyce fructus reflexo, pubescentia petiolorum patentissima, pedunculorum adpressa. Willd. sp. pl. 2. p. 1090.

vesca.

Icon. Engl. bot. 1524.

In Canada and New England. ♀. April, May. v. v. The common *Strawberry* is frequently found wild.

2. F. calyce fructus patente, pubescentia petiolorum erecta, pedunculorum adpressa, foliis supra glabriusculis. Willd. sp. pl. 2. p. 1091.

virginiana.

F. glabra. Duham. arb. 1. t. 5.

In woods and fields, frequent: Canada to Carolina. ♀. April, May. v. v.

3. F. major; foliolis amplo-ovalibus, lateralibus manifeste petiolatis, pedicellis longis recurvo-pendulis, receptaculis seminum globosis favoso-scribiculatis villosis. Mich. fl. amer. 1. p. 299.

canadensis.

In shady wet woods: Canada and on the Allegany mountains. ♀. April, May. v. v.

422. CALYCANTHUS. Gen. pl. 870.

1. C. laciniis calycis lanceolatis, foliis lato-ovalibus acutis subtus tomentosis, ramis patentibus.—Willd. sp. pl. 2. p. 1119. Willd. enum. 559.

floridus.

C. sterilis. Walt. fl. car. 151.

Icon. Bot. mag. 503.

On the banks of shady rivulets: Carolina. ♀. May—July. v. v. The fragrant flowers are, as all the following, dark purple. This so much esteemed shrub is generally known by the name of *Carolina Allspice* or *Sweet-scented Shrub*.

2. C. laciniis calycis lanceolatis, foliis ovato-lanceolatis acuminatis subtus glaucis pubescentibus, ramis patentibus.—Willd. enum. 559.

glaucus.

C. fertilis. Walt. fl. car. 151.

Icon. Bot. rep. 539. Schmidt arb. 129.

In the mountains of Carolina. ♀. May—Aug. v. v.

The scent of this species is not quite so agreeable as the foregoing one, and more faint.

lævigatus.

3. *C. laciniis calycis lanceolatis, foliis oblongis vel ovalibus sensim acuminatis subrugosis utrinque glabris viridibus, ramis stricte erectis.*—*Willd. enum.* 559.

C. ferax. Mich. fl. amer. 1. p. 305.

On the mountains of Pennsylvania, Virginia, and Carolina. $\frac{1}{2}$. May--July. *v. v.*

END OF THE FIRST VOLUME.

Flora Americæ Septentrionalis;
OR, A
SYSTEMATIC ARRANGEMENT
AND
DESCRIPTION
OF
The Plants
OF
NORTH AMERICA.
CONTAINING,
BESIDES WHAT HAVE BEEN DESCRIBED BY PRECEDING AUTHORS,
MANY NEW AND RARE SPECIES,
COLLECTED DURING TWELVE YEARS' TRAVELS AND RESIDENCE
IN THAT COUNTRY.

BY FREDERICK PURSH.

IN TWO VOLUMES.
WITH TWENTY-FOUR ENGRAVINGS.

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VOL. II.
////////////////////

SECOND EDITION.

—◆—
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MDCCCXVI.

XII. POLYANDRIA.

I. MONOGYNIA.

423. BEJARIA. *Cal.* 7-fidus. *Pet.* 7. *Stam.* 14. *Caps.* 7-locularis, polysperma.
424. TILIA. *Cal.* 5-partitus, deciduus. *Pet.* 5. *Stigma* sub-5-lobum. *Caps.* immatura 5-locularis, 5-valvis, 5-sperma: matura submonosperma, basi dehiscens.
425. HELIANTHEMUM. *Cal.* laciniis 5. sæpius inæqualibus: 2. extimis minoribus. *Pet.* 5. *Caps.* 1-locularis, 3-valvis; valvis medio septiferis.
426. HUDSONIA. *Cal.* 3-partitus, tubulosus. *Pet.* 5. *Stam.* 10—15. *Caps.* 1-locularis, 3-valvis, 3-sperma.
427. TALINUM. *Cal.* 5-phyllus. *Pet.* 5. *Caps.* 1-locularis, 3-valvis, polysperma.
428. PORTULACCA. *Cal.* 2-fidus. *Pet.* 5. *Caps.* 1-locularis, circumscissa.
429. CHELIDONIUM. *Cal.* 2-phyllus, deciduus. *Pet.* 4. *Caps.* 1-locularis, linearis. *Sem.* plurima, cristata.
430. GLAUCIUM. *Cal.* 2-phyllus, deciduus. *Pet.* 4. *Siliqua* 2-locularis, linearis. *Sem.* plurima, punctata.
431. PAPAVER. *Cal.* 2-phyllus, deciduus. *Pet.* 4. *Caps.* 1-locularis, sub stigmate persistente poris dehiscens.
432. SANGUINARIA. *Cal.* 2-phyllus. *Pet.* 8. *Caps.* ovata, 1-locularis.
433. ARGEMONE. *Cal.* 3-phyllus, deciduus. *Pet.* 6. *Caps.* semivalvis.
434. PODOPHYLLUM. *Cal.* 3-phyllus. *Pet.* 9. *Bacca* 1-locularis, coronata stigmate.
435. ACTÆA. *Cal.* 4-phyllus, deciduus. *Pet.* 4. *Bacca* 1-locularis. *Sem.* semiorbiculata.
436. SARRACENIA. *Cal.* duplex, 3-phyllus et 5-phyllus. *Pet.* 5. *Caps.* 5-locularis. *Stylus* stigmate clypeatus.

437. LEWISIA. *Cal.* 7—9-phyllus, scariosus. *Pet.* 14—18. *Stylus* 3-fidus. *Caps.* 3-locularis, polysperma. *Semina* nitida.
438. NYMPHÆA. *Cal.* 4—5-phyllus. *Pet.* plurima, germini sub staminibus inserta. *Stigma* radiatum, sessile, medio nectariferum. *Bacca* multiocularis, polysperma.
439. NUPHAR. *Cal.* 5—6-phyllus. *Pet.* plurima, receptaculo cum staminibus inserta, dorso nectarifera. *Stigma* radiato-sulcatum, sessile. *Bacca* multiocularis, polysperma.
440. CERATOPHYLLUM. *Cal.* multipartitus : femineus 6-phyllus, imbricatus. *Cor.* 0. *Anth.* tricuspidatæ. *Nux* 1-sperma. *Monoicum*.

II. DI-PENTAGYNIA.

441. CALLIGONUM. *Cal.* 5-partitus. *Cor.* 0. *Styli* 4. *Nux* 1-locularis, 4-alata. *Dioicum*.
442. DAFISCA. *Cal.* 5-phyllus : femineus 2-dentatus. *Cor.* 0. *Anth.* sessiles, oblongæ, 15. *Styli* 3. *Caps.* 3-angularis, 3-cornis, 1-locularis. *Dioica*.
443. MENISPERMUM. *Cal.* 0. *Pet.* 4. exteriora ; 8. interiora. *Stam.* 6. 8. 12. 16. *Pist.* 2—3. *Baccæ* 1—2, monospermæ. *Dioicum*.
444. DELPHINIUM. *Cal.* 0. *Pet.* 5. *Nectar.* 2-fidum, postice cornutum. *Caps.* 1—3. seu 5.
445. ACONITUM. *Cal.* 0. *Pet.* 5. supremo fornicato. *Nectar.* 2. pedunculata, recurva. *Caps.* 3. seu 5.
446. AQUILEGIA. *Cal.* 0. *Pet.* 5. *Nectar.* corniculata, inter petala. *Caps.* 5. distinctæ.
447. CIMICIFUGA. *Cal.* 4—5-phyllus. *Pet.* 4—8. cartilaginea. *Caps.* 1—5. seu plures, oblongæ, sutura laterali debiscentes, polyspermæ.
448. ASCYRUM. *Cal.* 4-phyllus : 2. interioribus majoribus. *Pet.* 4. *Filam.* in 4. phalanges digesta. *Caps.* oblonga, 1-locularis, 2-valvis, calyce inclusa.
449. HYPERICUM. *Cal.* 5-partitus, laciniis subæqualibus. *Pet.* 5. *Filam.* vix basi connata. *Caps.* subrotunda : loculis numero styli : 1—2—3—5.
450. ELODEA. *Cal.* 5-partitus, æqualis. *Pet.* 5. unguibus nectariferis. *Filam.* 10—15. in 3. phalanges connata. *Glandulæ* inter phalanges. *Styli* 3. divergentes. *Caps.* 3-locularis.

III. POLYGYNIA.

* *Flores vagi.*

451. ILLICIUM. *Cal.* 6-phyllus. *Pet.* 27. *Caps.* plures, in orbem digestæ, 2-valves, 1 spermæ.
452. MAGNOLIA. *Cal.* 3-phyllus. *Pet.* 6—9. *Caps.* 2-valves, 1-spermæ, in strobilum imbricatæ. *Sem.* pendula.
453. LIRIODENDRON. *Cal.* 3-phyllus. *Pet.* 6. *Samaræ* imbricatæ in strobilum. *Caps.* 1—2-spermæ, non dehiscentes.
454. PORCELIA. *Cal.* 3-phyllus. *Pet.* 6. interiora majora. *Stigmata* sessilia, obtusa. *Baccæ* plures aut abortione subsolitariae, ovoideo-subreniformes, polyspermæ. *Sem.* sutura interna adnexa, arillata.
455. ATRAGENE. *Cal.* 0. *Cor.* 4—6-petala. *Nectaria* 4. spatulata, petalis alternantia. *Filam.* exteriora dilatata subantherifera. *Sem.* aristata, aristis pilosis.
456. CLEMATIS. *Cal.* 0. *Pet.* 4—6. *Sem.* caudata, cauda plumosa.
457. ANEMONE. *Cal.* 0. *Pet.* 6—9. *Sem.* ecaudata.
458. THALICTRUM. *Cal.* 0. *Pet.* 4—5. *Stam.* longissima. *Sem.* ecaudata, striata, teretia.
459. HYDRASTIS. *Cal.* 0. *Pet.* 3. *Bacca* composita, acinis monospermis.
460. BRASENIA. *Cal.* 0. *Pet.* 6. persistentia: 3. interiora longiora. *Caps.* 6—10. oblongæ, dispermæ.
461. CALTHA. *Cal.* 0. *Pet.* 5. decidua. *Caps.* plurimæ, polyspermæ.
462. COPTIS. *Cal.* 0. *Pet.* 5—6. caduca. *Nectar.* 5—6. cucullata. *Caps.* 5—8. stipitatae, stellatae, rostratae, polyspermæ.
463. TROLLIUS. *Cal.* 0. *Pet.* 5—8. decidua. *Nectar.* 5—8. linearia. *Caps.* plurimæ, sessiles, polyspermæ.
464. HEPATICA. *Cal.* 3-phyllus. *Pet.* 6—9. *Sem.* nuda.
465. RANUNCULUS. *Cal.* 5-phyllus. *Pet.* 5. intra ungues poro mellifero. *Sem.* nuda.
466. SAGITTARIA. *Cal.* 3-phyllus. *Pet.* 3. *Caps.* aggregatae, 1-spermæ. *Polygama.*
467. CYAMUS. *Cal.* 4—5-phyllus. *Pet.* plurima. *Fructus* turbinatus, in disco truncato foveis plurimis excavatus 1-spermis. *Nuces* ovatae, stylo persistente coronatae.

** *Flores spathacei. Spadix simplex.*

468. POTHOS. *Spatha cucullata. Spadix floribus tectus.*
Cal. O. Pet. 4. Baccæ 2-spermæ.
 469. CALLA. *Spatha planiuscula. Spadix floribus tectus.*
Cal. et Cor. O. Baccæ polyspermæ.
 470. ARUM. *Spatha cucullata. Spadix supra nudus,*
inferne femineus, medio stamineus. Cal. et Cor. O.
Baccæ ut plurimum 1-spermæ.

I. MONOGYNIA.

423. BEJARIA. *Gen. pl. 811. Vent. hort. cels p. 51.*

racemosa.

1. *B. foliis ovato-lanceolatis glabris, floribus racemoso-paniculatis terminalibus.*—*Vent. l. c.*
Befaria paniculata. Mich. fl. amer. 1. p. 280.
Icon. Mich. l. c. t. 26. Vent. l. c. t. 51.
 α . *B. foliis utrinque acutis, caule hispido.*
 β . *B. foliis obovatis obtusiusculis, caule glabro.*

In sandy woods, on the banks of swamps and ponds :
 Georgia and Florida : particularly plentiful on the
 Island of St. Mary's. $\frac{1}{2}$. June. *v. v.* A beautiful
 shrub, from three to four feet high ; flowers white,
 tinged with red, of an agreeable scent.

424. TILIA. *Gen. pl. 894.*

glabra.

1. *T. foliis suborbiculato-cordatis abrupte acuminatis argute serratis subcoriaceis glabris, petalis apice truncatis crenatis, stylo petalis subæquali, nuce ovata subcostata.*—
Vent. in mem. de l'instit. sc. phys. 4. p. 9. t. 2.
T. americana. Willd. sp. pl. 2. p. 1162.
T. caroliniana. Wangh. amer. 56.
T. canadensis. Mich. fl. amer. 1. p. 306.
Icon. Vent. l. c. t. 2. Mich. art. t. . . .

In the woods of Canada and the northern United States,
 and on the mountains, as far south as Carolina. $\frac{1}{2}$.
 May, June. *v. v.* This tree is known by the name
 of *Lime- or Line-tree ; Basswood ; Spoonwood ;* and is
 both useful and ornamental.

2. *T. foliis cordatis sensim acuminate rariter dentatis membranaceis glabris. paniculis laxifloris, petalis emarginatis, stylo petalis longiore, nuce globosa.*—*Mich. fl. amer.* 1. p. 300.

*luxiflora.*Icon. *Mich. arb. t.*

Near the sea-coast: Maryland to Georgia. $\frac{1}{2}$. May, June. *v. v. s. fl.* A very distinct species, though generally confounded with the foregoing one.

3. *T. foliis basi truncatis obliquis acuminate denticulato-serratis subtus pubescentibus, paniculis confertifloris, petalis emarginatis, stylo petalis subæquali, nuce globosa lævi.*—*Vent. in mem. de l'instit. sc. phys.* 4. p. 10. t. 3. *Willd. sp. pl.* 2. p. 1162.

*pubescens.**T. caroliniana* *Mill. dict. no.* 4.*T. americana.* *Walt. fl. car.* 153. *Wangh. amer.* 55.

- β . *T. foliis laxe serratis tenuissimis subpapyraceis.* *Vent. l. c. p.* 11.

leptophylla.

In close copses and on the banks of rivers: Virginia to Georgia. $\frac{1}{2}$. May—July. *v. v.* The variety β . can scarcely be considered a distinct species, unless the flowers and fruit should prove it so, both of which I have not seen.

4. *T. foliis ovatis basi oblique aut æqualiter truncatis cordatisque argute serratis subtus niveo-tomentosis, nuce globosa subcostata.* *Vent. l. c. p.* 16. t. 5.

heterophylla.

On the banks of the Ohio and Mississippi. $\frac{1}{2}$. June. *v. s.* A very handsome and desirable ornamental tree.

425. *HELIANTHEMUM.* *Juss. gen. pl.* 326.*Cisti spec. Gen. pl.* 913.

1. *H. exstipulatum, erectum; foliis alternis erectis linearilanceolatis planis subtus tomentosis, racemis terminalibus paucifloris, calycis laciniis lato-ovatis acuminate, capsulis calyce brevioribus.*—*Willd. sp. pl.* 2. p. 1199. *sub Cisto.*

canadense.

In dry fields and pine woods: Canada to Carolina. $\frac{1}{4}$. June. *v. v.* Flowers, as in all the following species, yellow.

2. *H. exstipulatum, erectum, pulverulento-tomentosum; foliis alternis oblongis acutis margine revolutis subtus tomentosis, racemis brevissimis, summitate subtrifloris, calycis laciniis orbiculatis pulverulentis, capsulis globosis longitudine calycis.*—*Mich. fl. amer.* 1. p. 307.

ramuliflorum.

Menandra ramis alternis. Clayt. fl. virg. 20.

In sandy fields: New Jersey to Carolina. 24. July.
v. v. Flowers small.

corymbosum. 3. *H. exstipulatum*, erectum, ramosum, minutim pubescens; foliis alternis lanceolatis subtus cano-tomentosis, corymbis fastigiatis confertim multifloris, calycis laciniis ovatis acutis, capsulis calyce vix longioribus.—*Mich. fl. amer.* 1. p. 307.

In dry barren sand-fields, particularly along the sea-coast: New Jersey to Georgia. 24. June—Aug.
v. v. Flowers very small, sometimes without petals; from which circumstance this and the foregoing species have been mistaken for *Lecchea major*.

rosmarinifolium. 4. *H. exstipulatum*, stricte-erectum, simplex, canescens; foliis linearibus margine revolutis subtus cano-tomentosis, racemulis axillaribus interrupte confertifloris, calycis laciniis ovatis acutis, petalis calyce triplo longioribus.

In pine-barrens: Georgia. *Enslen.* 24. July. v. s.
in *Herb. Enslen.* Flowers bright yellow.

carolinianum. 5. *H. exstipulatum*, hirsutum, erectum; foliis alternis oblongo-ovalibus subdenticulatis, imis obovalibus utrinque hirsutis, pedunculis terminalibus paucis calycibusque villosissimis, calycis laciniis oblongis acutis petalis brevioribus. —*Mich. fl. amer.* 1. p. 307.

Cistus carolinianus. Walt. fl. car. 152.

Icon. *Vent. cels* 74.

In pine-barrens of Carolina and Georgia. 24. June—Aug. v. v. Flowers and leaves larger than in any other species.

426. HUDSONIA. *Gen. pl.* 822. *Willd. hort. berol.* 15.

erucoides.

1. *Hudsonia. Willd. sp. pl.* 2. p. 858.

Icon. *Willd. hort. berol.* 15. *Berg. act. holm.* 1778. t. 2.

In pine-barrens of New Jersey and Virginia. 2. May, June. v. v. Flowers yellow. This delicate little shrub, not above six inches high, covers large tracts of sandy pine-woods in a similar manner as common heath.

427. TALINUM. *Juss. gen. pl.* 346.

1. *T. foliis cylindricis carnosis, corymbis terminalibus pedunculatis. teretifolium.*

On sunny rocks: Delaware and Virginia. ♀. July.
v. v. Flowers purple.

428. PORTULACCA. *Gen. pl.* 824.

1. *P. foliis cuneiformibus, floribus sessilibus. Willd. sp. pl. 2. p. 859. oleracea.*

Icon. *Schkuhr handb.* 130.

Purslane is a common weed in gardens.

429. CHELIDONIUM. *Gen. pl.* 880.

1. *C. foliis alternis pinnatis lobatis, umbellis axillaribus pedunculatis.—Willd. sp. pl. 2. p. 1141. majus.*

Icon. *Fl. dan.* 542. *Engl. bot.* 1581.

Near old buildings and among rocks: New England and Pennsylvania; probably introduced. ♀. May, June. v. v. The yellow fluid which it affords by breaking the stems, is considered an infallible remedy in curing warts and corns.

2. *C. caulibus in summitate geminatim diphyllis, foliis sessilibus lobato-pinnatifidis, pedunculo solitario unifloro, capsula oblongo-ovata.—Mich. fl. amer. 1. p. 309. diphyllum.*

In shady woods, near rivulets: Kentucky and Tennessee. *Michaux.* ♀. May. v. s. Resembles *Sanguinaria* very much, and seems to be the connecting link to both genera.

430. GLAUCIUM. *Juss. gen. pl.* 261.

1. *G. caule glabro, foliis caulinis amplexicaulibus repandis, pedunculis unifloris, siliqua tuberculato-scabriuscula. Smith fl. brit. 2. p. 563. luteum.*

Chelidonium Glaucium. Willd. sp. pl. 2. p. 1142.

Icon. *Fl. dan.* 585. *Engl. bot.* 8.

On the sea-coast of Virginia and Carolina. ☉. June, July. v. v. Flowers large, yellow.

431. PAPAVER. *Gen. pl.* 681.

1. *P. capsulis hispidis, scapo unifloro nudo hispido, foliis subpinnatis, foliolis lanceolatis; inferioribus subincisis. nudicaule.*
—*Willd. sp. pl. 2. p. 1145.*

Icon. *Fl. dan.* 41. *Dill. elth. t.* 224. *f.* 291.
In Labrador. *Colmaster. ♂. v. s. in Herb. Dickson.*
Flowers yellow.

432. SANGUINARIA. *Gen. pl.* 878.

- canadensis.* 1. *S. folio subreniformi sinuato-lobato, scapo unifloro.*—*Willd. sp. pl.* 2. *p.* 1140.
Icon. *Bot. mag.* 162. *Dill. elth. t.* 252.
stenopetala. β. *S. petalis linearibus.*
In dry woods, generally in fertile soil : Canada to Florida. ♀. March, April. *v. v.* Flowers white ; the number of petals is variable ; and with little care and attention a fine double variety might be produced. It is known by the name of *Blood-wort*.

433. ARGEMONE. *Gen. pl.* 882.

- mexicana.* 1. *A. capsulis 5-valvibus, foliis pinnatifidis incisis spinosis, floribus axillaribus.*—*Willd. sp. pl.* 2. *p.* 1148.
Icon. *Bot. mag.* 243.
On banks of rivers : Carolina to Florida. ☉. July, Aug. *v. v.* Flowers yellow, large. In Georgia is a variety with white flowers, which has a beautiful appearance.

434. PODOPHYLLUM. *Gen. pl.* 879.

- peltatum.* 1. *P. caule unifolio unifloro, folio peltato palmato : lobis cuneatis incisis.*—*Willd. sp. pl.* 2. *p.* 1141.
Icon. *Trew ehret. t.* 29 *Catesb. car.* 1. *t.* 24.
In shady woods, in large patches, generally on moist ground : New England to Carolina. ♀. March, April *v. v.* Flower white ; the fruit is the size of a common plum, green, eatable, and known by the name of *May-apple* : the root is sometimes used as *Ipecacuanha*.

435. ACTÆA. *Gen. pl.* 877.

- americana.* 1. *A. foliis decompositis : foliolis oblongis sensim acutis inciso-serratis, racemo ovato, petalis staminibus brevioribus.*
A. spicata. Mich. fl. amer. 1. *p.* 308.
A. rubra. Willd. enum. 560.
alba. α. *A. baccis niveis.*
Icon. *Corn. canad. t.* 77. *Moris. hist.* 2. *s.* 1. *t.* 2. *f.* 7.

β. *A. baccis rubris.*

rubra.

In shady rocky woods, in rich vegetable mould : Canada to Virginia ; principally on the mountains. *℥*. April, May. *v. v.* Flowers white ; berries white or red ; known by the name of *Red* and *White Cohosh*, and considered by the natives as a valuable medicine. *A. spicata* differs not only in its foliage, but the petals are the length of the stamina.

436. SARRACENIA. *Gen. pl.* 885.

1. *S. foliis brevibus, tubo ventricosogibbo, fauce coarctato, ala ventrali arcuatim elatiore, appendice erecta subreniformi-cordata mutica sessili. Mich. fl. amer. 1. p. 310. Willd. sp. pl. 2. p. 1150.*

purpurea.

Icon. *Bot. mag.* 849. *Mill. ic.* 241. *Catesb. car.* 2. t. 70. *Pluk. amalth. t.* 376. f. 6.

In cedar swamps and sphagnum marshes : Canada to Carolina. *℥*. June, July. *v. v.* Flowers purple, large. This singular and handsome plant is, with all the following, a very desirable object in the collection of the admirers of nature ; they bear cultivation, in pots filled half way with sphagnum, extremely well.

2. *S. foliis elongatis, tubo superne dorso maculato, in appendicem fornicatim incurvatam brevem desinente, ala ventrali lineari-lanceolata. Mich. fl. amer. 1. p. 310.*

variolaris.

S. minor. Walt. fl. car. 153.

S. adunca. Smith exot. bot. 1. t. 53.

In open swamps, on sandy soil : North Carolina to Florida. *℥*. June, July. *v. v.* Flowers yellow. The transparent spots on the back of the leaf distinguish this species very easily from the following, with which it has often been confounded.

3. *S. foliis strictis longissime infundibuliformibus, fauce patula, ala ventrali subnulla, appendice erecta basi coarctata ima parte lateribus retroflexis, mucrone subulato. Mich. fl. amer. 1. p. 310. Willd. sp. pl. 2. p. 1150.*

flava.

Icon. *Bot. mag.* 780. *Bot. rep.* 381. *Catesb. car.* 2. t. 69. *Pluk. amalth. t.* 376. f. 5.

In open swamps : Virginia to Florida. *℥*. June, July. *v. v.* Flowers yellow. This is the tallest growing sort ; the leaves are often two feet long.

- psittacina*. 4. *S. foliis brevibus superne coloratis venoso-reticulatis, ala ventrali sursum subcuneatim latescente, tubo sensim in appendicem recurvatam rotundatim fornicatam mucronatam desinente.* *Mich. fl. amer.* 1. p. 311.
S. rubra. *Walt. fl. car.* 152.
 Icon. *Pluk. amalth. t.* 152. *f.* 3?
 In swamps of Georgia and Florida. $\mathcal{U}$. June, July.
v. v. Flowers on very long peduncles, purple; leaves small, very handsomely marked with purple veins.

437. LEWISIA. *Pursh in linn. trans. v.* 11.

- rediviva*. 1. *Lewisia. l. c.*
 On the banks of Clarck's river. $\mathcal{U}$. July. *v. s. in Herb. Lewis.* Petals white; calyx elegantly red-veined, of a consistency like paper.
Radix fusiformis, ramosa, sanguinea. *Folia* radicalia linearia, subcarnosa, obtusiuscula. *Scapus* uniflorus? an biflorus. *Pedicellus* basi geniculatus. *Calyx* coloratus, scariosus, 7—9-phyllus, patens: foliolis ovatis, acutis, concavis, nervoso-venosis, interioribus angustioribus. *Petala* 14—18. alba, lanceolata, patentia, calyce vix duplo longiora. *Filamenta* 14—18. receptaculo petalis opposite inserta, filiformia, calyce breviora. *Antheræ* oblongæ, erectæ. *Germen* superum, ovatum, glabrum. *Stylus* filiformis, staminibus paulo longior, superne trifidus. *Stigmata* 3. bifida. *Capsula* oblonga, 3-locularis: oculis bispermis. *Semina* lenticularia, nitida, nigra.
 This elegant plant would be a very desirable addition to the ornamental perennials, since, if once introduced, it would be easily kept and propagated, as the following circumstance will clearly prove. The specimen with roots taken out of the Herbarium of M. Lewis, Esq. was planted by Mr. M'Mahon of Philadelphia, and vegetated for more than one year: but some accident happening to it, I had not the pleasure of seeing it in flower.

438. NYMPHÆA. *Gen. pl.* 886.

Castalia. *Salisb. in annals of bot.* 2. p. 71.

- odorata*. 1. *N. foliis orbiculato-cordatis integerrimis submarginatis, lobis divaricatis, acumine obtuso, petalis calyce 4-*

4-phylo æqualibus, stigmatè radiis 16—20. erectis.—

Willd. sp. pl. 2. p. 1153.

N. alba. Mich. fl. amer. 1. p. 311. *Walt. fl. car.* 155.

Castalia pudica. Salisb. l. c. p. 72.

Icon. Bot. mag. 819. *Bot. rep.* 297.

β. *N. foliis cordatis integerrimis obtusis, lobis divaricatis acutis, petiolis pedunculis foliisque subtus purpureis, calycibus petalisque extus roseis.*

rosea.

Icon. Willd. hort. berol. 39?

In ponds and slow-flowing waters: Canada to Carolina.

♂. July. *v. v.* Flowers white, fragrant. The variety β. is probably a distinct species, which only further observation can decide. It resembles *N. pygmæa*.

439. NUPHAR. *Smith prodr. fl. græc.* 1. p. 361.

Nymphæa. Gen. pl. 886. *Salisb. in annals of bot.* 2. p. 71.

1. *N. foliis cordatis integerrimis, lobis approximatis, calyce 5-phylo, stigmatè repando 14—20-radiato profunde umbilicato.*—*Ait. kew. ed.* 2. v. 3. p. 295.

lutea.

Nymphæa lutea. Willd. sp. pl. 2. p. 1151.

Nymphæa umbilicalis. Salisb. l. c.

Icon. Engl. bot. 159.

In lakes on the Allegany mountains. ♂. June, July. *v. v.* Flowers yellow, as are all the following species.

2. *N. foliis erectis cordatis integerrimis, lobis divaricatis, calyce 6-phylo, stigmatè leviter umbilicato 13-radiato, pericarpio sulcato.*—*Ait. kew. ed.* 2. v. 3. p. 295.

advena.

Nymphæa advena. Willd. sp. pl. 2. p. 1152.

Nymphæa arifolia. Salisb. l. c.

Icon. Bot. mag. 684. *Willd. hort. berol.* 38.

In all ponds and ditches, even in salt water: Canada to Carolina. ♂. July, Aug. *v. v.* Resembles the foregoing species, but is distinguished at first sight by its upright leaves.

3. *N. foliis cordatis, lobis subapproximatis, calyce 5-phylo, stigmatè inciso 8—12-radiato.* *Ait. kew. ed.* 2. v. 2. p. 295.

Kalmiana.

Nymphæa lutea β. *Kalmiana. Mich. fl. amer.* 1. p. 311.

Nymphæa lutea. Walt. fl. car. 154.

Icon. Bot. mag. 1243.

In ponds: Canada to Carolina; rare. ♂. July, Aug. *v. v.* Flowers very small in comparison with others.

- sagittifolia.* 4. N. foliis elongatis sagittato-cordatis obtusis, calyce 6-phylo, petalis nullis, antheris subsessilibus.—*Salisb. l. c.*
Nymphæa sagittifolia. Walt. fl. car. 155.
Nymphæa longifolia Mich. fl. amer. 1. p. 312.
 In slow-flowing waters: Carolina and Georgia. $\mathcal{U}$.
 July, Aug. *v. s.* Flowers small.

440. CERATOPHYLLUM. *Gen. pl. 493. Willd. act. ac. berol. 1798. p. 84.*

- lanceolatum.* 1. C. foliis verticillatis octonis dichotomo-bigeminis dorso dentatis spinulosis, floribus axillaribus solitariis sessilibus, fructibus 3-spinosis.—*Willd. sp. pl. 4. p. 405.*
Icon. Engl. bot. 947.
 In ditches and stagnant waters, floating: New York to Virginia. $\mathcal{U}$. July, Aug. *v. v.* Flowers exceeding small.

II. DI-PENTAGYNIA.

441. CALLIGONUM. *Gen. pl. 834.*

- canescens.* 1. C. dioicum, pulverulento-tomentosum; foliis lanceolatis, floribus axillaribus glomeratis in apice ramulorum subspicatis, fructibus alatis, alis venosis cristato-dentatis.
 In the plains of the Missouri, near the Big-bend. $\mathcal{U}$.
 July, Aug. *v. s. in Herb. Lewis.* Flowers exceeding small. Goats delight to feed upon this shrub.

442. DATISCA. *Gen. pl. 1543.*

- hirta.* 1. D. caule hirsuto, foliis pinnatis, foliolis basi confluentibus.—*Willd. sp. pl. 4. p. 823.*
 In Pennsylvania. *Kalm. \mathcal{U}. +.* Flowers yellow, small, in terminal panicles. I never had an opportunity of seeing this plant myself.

443. MENISPERMUM. *Gen. pl. 1544.*

- canadense.* 1. M. foliis peltatis cordatis subrotundo-angulatis, racemis compositis.—*Willd. sp. pl. 4. p. 824.*

β. *M. foliis lobatis.*

M. virginicum. Willd. *sp. pl.* 4. p. 824. *excl. syn. Dill. elth.*

lobatum.

On the banks of rivers and sides of fertile hills, climbing among other shrubs. *h.* July. *v. v.* Flowers greenish yellow; berries black, resembling grapes. *M. folio hederaceo,* Dill. *elth. t.* 178. *f.* 219. belongs to *M. carolinianum* or *Wendlandia*.

2. *M. foliis cordatis palmato-lobatis longissime pedicellatis, racemis simplicibus, floribus hexapetalis dodecandris.*

Lyon.

In Kentucky and Tennessee. *℥.* June, July. *v. v. s. fl.*; *v. s. in Herb. Lyon.* Berries large, black, one-seeded. Stem climbing to the height of twenty feet; leaves large.

444. DELPHINIUM. *Gen. pl.* 924.

1. *D. pumilum*; caule simplici, foliis palmato-multifidis, laciniis sub lanceolatis obtusiusculis, fasciculo paucifloro, cornu recto corolla brevior, capsulis 3. compressis arcuatis subreflexo-patulis.—*Mich. fl. amer.* 1. p. 314.

tricorn.

On the side of shady and fertile hills, on the banks of rivers: Virginia to Carolina; particularly plentiful about Harper's Ferry on the Potowmac, Virginia. *℥.* April, May. *v. v.* Not above eight inches high; flowers beautiful blue.

2. *D. caule stricto simplici, foliis lineari-multipartitis, spica floribus breviter pedicellatis, cornu sursum arcuato, petalis villosissimis, capsulis ternis.* *Mich. fl. amer.* 1. p. 314.

azur.

D. carolinianum. *Walt. fl. car.* 155.

On the borders of woods, in sandy soil: Carolina and Georgia. On the banks of the Missouri and Mississippi. *℥.* May, June. *v. s.* Flowers beautiful sky-blue, large. W. Bartram mentions this very handsome species in his Travels.

3. *D. caule glabro subramoso, foliis tripartito-palmatis, laciniis lanceolatis subtrifidis, spicis strictis, cornu recto longitudine corollæ, capsulis ternis.*—*Willd. sp. pl.* 2. p. 1230.

exaltat.

D. tridactylum. *Mich. fl. amer.* 1. p. 314.

D. urceolatum. *Jacq. collect.* 1. p. 153.

Icon. Mill, ic. t. 250. *f.* 2. *Jacq. ic. rar.* 1. *t.* 101.

In rocky shady places, in the mountains of Virginia and Carolina. *W.* July. *v. v.* From two to four feet high.

Consolida.

4. *D. pubescens*; caule erecto ramoso, foliis lineari-multipartitis, cornu adscendente corollam subæquante, nectario monophyllo, capsula solitaria.—*Willd. sp. pl.* 2. p. 1226.

Icon. *Fl. dan.* 683.

In fields and woods: Pennsylvania and Virginia. ☉. June, July. *v. v.* Common *Lark-spur*, probably introduced with the seeds of grain from Europe.

445. ACONITUM. *Gen. pl.* 928.

uncinatum.

1. *A. floribus subpentagynis, foliis 3—5-lobis inciso-dentatis, corollarum galea longius extensa*.—*Willd. sp. pl.* 2. p. 1238.

In swamps and on the side of rivulets, on the high mountains of Virginia and Carolina. *W.* June, July. *v. v.* Flowers large, of a fine blue and singular structure. On the foot of the Peaks of Otter and about the Sweet-springs another species occurs, with smaller flowers, and a climbing stem which sometimes attains the height of nine feet; but unfortunately I have no materials at present to give a correct description thereof.

446. AQUILEGIA. *Gen. pl.* 934.

canadensis.

1. *A. cornibus rectis, staminibus exertis*.—*Willd. sp. pl.* 2. p. 1247.

Icon. *Bot. mag.* 246. *Rob. ic.* 296.

In the crevices of rocks: Canada to Carolina. *W.* April, May. *v. v.* Flowers scarlet, mixed with yellow.

447. CIMICIFUGA. *Gen. pl.* 993.

Serpentaria.

1. *C. foliis decompositis, foliolis ovato-oblongis incisim dentatis: dentibus mucronatis divaricatis, racemis virgatis paniculatis elongatis, floribus submonogynis, capsulis ovatis*.

Actæa racemosa. *Willd. sp. pl.* 2. p. 1139.

Actæa monogyna. *Walt. fl. car.* 151.

Icon. *Dill. elth. t.* 67. f. 78. *Schkuhr handb.* 139. *Pluk. amalth. t.* 383. f. 3.

In shady, stony woods : Canada to Florida. $\mathcal{U}$. July, Aug. *v. v.* A tall stately plant ; spikes long, white ; generally known under the name of *Black Snake-root*.

2. *C. foliis decompositis, foliolis ovatis incisus dentatis, dentibus acutis, racemis paniculatis nutantibus, floribus 5-gynis, capsulis ovatis uncinatis.*—*Willd. sp. pl.* 2. p. 1244.

foetida.

Actæa Cimicifuga. Sp. pl. 722.

Icon. *Lam. illustr.* 487. *Amœn. acad.* 7. t. 6. f. 2.

On the north-west coast. $\mathcal{U}$. July, Aug. *v. v.*

3. *C. foliis decomposito-biternatis, foliolis cordatis lobatis serrato-dentatis, racemis virgatim-paniculatis elongatis, floribus 2—5-gynis, germminibus glabris.*

cordifolia.

C. americana. Mich. fl. amer. 1. p. 316.

In shady woods, on high mountains of Carolina. $\mathcal{U}$. July. *v. v.*; *v. s. in Herb. Lambert.* Resembles the foregoing very much in general habit.

4. *C. foliis simplicibus palmatis, floribus dichotome-paniculatis subcorymbosis polygynis, capsulis brevissimis subgloboso-capitatis.*—*Mich. fl. amer.* 1. p. 316.

palmata.

Actæa racemosa. Herb. Walt.

In the beds of mountain rivulets in Virginia and Carolina. $\mathcal{U}$. July, Aug. *v. v.* A very tall and handsome plant ; the leaves very large, and the flowers in great abundance.

448. ASCYRUM. *Gen. pl.* 1225.

1. *A. pusillum, simplex ; foliis ovalibus obtusis, pedicellis longis reflexis, floribus 1—2-gynis.*—*Mich. fl. amer.* 2. p. 77.

pumilum.

A. nummularifolium. Herb. Banks. mss.

In pine-barrens of Georgia. $\mathcal{U}$. June—Aug. *v. s.* Not above three inches high ; flowers small, yellow, as are all the following species.

2. *A. multicaule, diffusum ; foliis sub lanceolato-oblongis obtusis, corymbo terminali, floribus subsessilibus 2-gynis, caule subtereti.*—*Willd. sp. pl.* 3. p. 1472.

Crux Andree.

A. multicaule. Mich. fl. amer. 2. p. 77.

In sandy fields and woods : New Jersey to Carolina. $\frac{1}{2}$ July. *v. v.* Not above a foot high ; flowers pale yellow ; petals narrow.

3. *A. erectum, ramosum ; ramis ancipitibus, foliis oblon-* *hypericoides.*

gis basi biglandulosis, floribus terminalibus solitariis breviter pedicellatis 3-gynis.—*Willd. sp. pl. 3. p. 1473.*

A. stans. Mich. fl. amer. 2. p. 77.

In low overflowed open places, generally in sandy soil : New Jersey to Carolina. $\frac{1}{2}$. July, Aug. *v. v.* Flowers larger than the former species : it is from one to two feet high.

amplexicaule. 4. *A. erectum* ; caule superne dichotome-paniculato, ramis ancipitibus, foliis ovato-oblongis amplexicaulibus, foliolis calycinis exterioribus cordatis, floribus 3-4-gynis.—*Mich. fl. amer. 2. p. 77.*

A. stans. Willd. sp. pl. 3. p. 1475.

Hypericum tetrapetalum. Lam. encycl. 4. p. 153.

In low grounds and woods : Virginia to Florida. $\frac{1}{2}$. July, Aug. *v. v.* The flowers and leaves larger than any other sort.

449. HYPERICUM. *Gen. pl. 1224.*

* *Pentagyna.*

Kalmianum. 1. *H. fruticosum, ramosissimum* ; ramulis 4-gonis, foliis lineari-lanceolatis, corymbis terminalibus 3—7-floris, laciniis calycis lanceolatis obtusiusculis, capsulis longitudine calycis.—*Willd. sp. pl. 3. p. 1438.*

H. Bartramianum. Mill. dict. n. 10.

In Pennsylvania and Virginia. $\frac{1}{2}$ June, July. *v. s. in Herb. Lambert. v. v. in Hortis.* From three to five feet high : the flowers of the whole genus are yellow.

pyramidalum. 2. *H. herbaceum, erectum* ; caule subtetragono ramoso, foliis sessilibus oblongis acutis glabris, floribus terminalibus, stylis staminibus brevioribus, calycinis foliolis ovatis acutis.—*Willd. sp. pl. 3. p. 1444.*

H. amplexicaule. Lam. encycl. 4. p. 147.

Icon. Fent. malm. 118.

In Canada? $\frac{1}{4}$. July, Aug. *v. v. in Hortis.* Flowers the size of *H. Ascyrum*.

ascyroides. 3. *H. herbaceum, glabrum* ; caule simplici 4-gono, foliis sessilibus oblongis acutis glabris, floribus terminalibus, stylis longitudine staminum calycinis foliolis ovato-lanceolatis.—*Willd. sp. pl. 3. p. 1443.*

H. macrocarpum. Mich. fl. amer. 2. p. 82.

In Canada and the western parts of New York and Pennsylvania. $\frac{1}{4}$. July, Aug. *v. v.* Flowers the largest of all the species here enumerated.

** *Trigynæ. Fruticosæ.*

4. *H. ramis ancipitibus, foliis ovali-oblongis obtusis mucronatis basi angustatis, floribus terminalibus subsolitariis, calycinis foliolis oblongis acutis staminibusque petalis æquantibus, stylis coadunatis longitudine staminum.* *Mich. fl. amer. 2. p. 81.* *frondosum.*
H. elatum. Ait. kew. 3. p. 104?
 In shady rocky places in Kentucky and Tennessee. *h.* July, Aug. *v. v.* Resembles *H. Ascyrum* very much; the leaves of the calyx are broad, and sometimes longer than the petals.
5. *H. ramis ancipitibus, foliis ellipticis margine crispato-revolutis supra opacis subtus glaucis, floribus terminalibus subsolitariis sessilibus, calycinis foliolis ovatis acuminatis, petalis deflexis staminibus longioribus, stylis coadunatis longitudine staminum.* *amœnum.*
 In South Carolina and Georgia. *Lyon. h.* July, Aug. *v. v.* This elegant species grows to the height of about two feet or more. Every branchlet has from one to three large flowers, of a bright golden yellow; the petals turn downwards, and leave the large crown of stamina in an upright situation, which, with the beautiful red ovate germen in the centre, gives the flower a particularly pleasing appearance.
6. *H. ramis ancipitibus, foliis lanceolato-linearibus obtusiusculis, corymbis axillaribus et terminalibus paucifloris, floribus primordialibus sessilibus staminibus stylisque longitudine petalorum, calycinis foliolis lanceolatis.—Willd. sp. pl. 3. p. 1453.* *prolificum.*
H. Kalmianum. Du Roi herb. 1. p. 310.
 In Virginia. *Gronov. h.* June—Aug. *v. v. in Hortis.* The most common and most hardy species in the gardens. I rather suspect its native country to be Canada, as most of the shrubby kinds coming from the southern parts are extremely tender.
7. *H. ramis alato-4-gonis, foliis oblongo-lanceolatis obtusiusculis sessilibus, panicula pedunculata dichotoma nudiuscula, floribus solitariis subsessilibus, calycinis laciniis lanceolatis petalis duplo brevioribus, stylis coadunatis staminibus longioribus.—Mich. fl. amer. 2. p. 78.* *nudiflorum.*
H. lævigatum. Ait. kew. 3. p. 106?
H. ligustrinum. Herb. Banks. Mss.

In Carolina. *Michaux.* $\frac{1}{2}$. July, Aug. *v. v.* Flowers small. Willdenow in the *Species Plantarum* considers this to be an herbaceous plant, whereas it certainly is a shrub.

glaucum. 8. *H. ramis teretibus, foliis oblongis cordatis amplexicaulibus obtusiusculis lævigatis glaucis coriaceis, panicula divaricato-dichotoma foliosa, calycinis foliolis ovatis acutis petalis longioribus, staminibus petalis subæquantibus, stylis coadunatis.*—*Mich. fl. amer.* 2. p. 78.

H. myrtifolium. *Lam. encycl.* 4. p. 180.

In Florida. *Michaux.* $\frac{1}{2}$. July, Aug. *v. v.* Flowers large.

densiflorum. 9. *H. ramosissimum; ramulis subteretibus, foliis lineari-lanceolatis obtusiusculis basi attenuatis, paniculis terminalibus composite-dichotomis subfoliosis densifloris, floribus solitariis pedicellatis, calycinis laciniis brevissimis ovatis deciduis, staminibus stylisque coadunatis petalis brevioribus.*

H. rosmarinifolium. *Lam. encycl.* 4. p. 159?

On the dry ridges and savannahs of the Virginia mountains. $\frac{1}{2}$. June, July. *v. v.* About two feet high; flowers middle-sized, in very abundant and close panicles.

galloides. 10. *H. ramulis tetragonis, foliis linearibus sessilibus margine revolutis, axillis fasciculato-foliolosis, paniculis terminalibus divaricato-dichotomis, petalis staminibus æquantibus calyce lineari vix longioribus, stylis coadunatis subexsertis.*—*Lam. encycl.* 4. p. 161.

In sandy moist places, near rivulets: New Jersey to Carolina. $\frac{1}{2}$. July—Sept. *v. v.* About two feet high; flowers the size of No. 9.

aspalathoides. 11. *H. ramis subteretibus dichotomis, foliis fasciculatis linearibus acutis striatis, floribus solitariis axillaribus subsessilibus, staminibus petalis brevioribus, stylis coadunatis.*—*Willd. sp. pl.* 3. p. 1451.

H. fasciculatum. *Lam. encycl.* 4. p. 160.

In Carolina. *Fraser.* $\frac{1}{2}$. +. Flowers of middle size.

fasciculatum. 12. *H. ramulis teretibus, foliis quasi verticillatim-fasciculatis lineari-lanceolatis acutis basi attenuatis petiolatis margine revolutis, pedunculis in apice ramorum axillaribus trifloris, flore medio sessili, calycibus foliiformibus, stylis coadunatis.*—*Willd. sp. pl.* 3. p. 1452. *excl. syn. Michaux.*

H. axillare. *Lam. encycl.* 4. p. 161.

H. Coris. *Walt. fl. car.* 190.

In pine woods of Georgia and Florida. $\frac{1}{2}$. July. *v. v.*
Flowers the size of *H. perforatum*.

13. *H. ramulis angulosis, foliis confertis quasi verticillatim fasciculatis filiformi-linearibus convexis obtusis sessilibus, pedunculis in apice ramulorum axillaribus 1—3-floris, calycibus foliiformibus, stylis coadunatis.* *tenuifolium*.
H. fasciculatum. *Mich. fl. amer.* 1. p. 50.
In Georgia. *Enslen. v. s. in Herb. Enslen.* Resembles the foregoing species in many respects.

*** *Trigynæ. Herbaceæ.*

14. *H. erectum, ramosum; caule ancipiti, foliis oblongis obtusis pellucido-punctatis, panicula terminali brachiato-foliosa, petalis calyce acuto lanceolato duplo longioribus.*—*Willd. sp. pl.* 3. p. 1460. *perforatum*.

H. virginicum. *Walt. fl. car.* 189.

Icon. Fl. dan. 1043. *Engl. bot.* 295.

In old fields, meadows, and on dry hills; common. $\frac{1}{2}$.
June—Aug. *v. v.* Common *St. John's Wort* has probably been introduced from Europe, but become one of the most pernicious weeds, and is considered very injurious to horses; for, when they feed upon it, blindness and other diseases are said to be the consequence.

15. *H. erectum, glabrum, nigro-punctatum; caule tereti ramoso, foliis amplexicaulibus oblongo-ovalibus obtusis, corymbis terminalibus brachiatis densifloris, calycinis laciniis lanceolatis acutis.*—*Willd. sp. pl.* 3. p. 1457. *corymbosum*.

H. maculatum. *Walt. fl. car.* 189.

H. punctatum. *Lam. encycl.* 4. p. 164.

In shady woods: New England to Carolina; particularly in the range of the mountains. $\frac{1}{2}$. June—Aug. *v. v.*
Flowers pale yellow, smaller than the foregoing one.

16. *H. erectum, ramosissimum, glabrum; caule subtetragono, foliis ovato-oblongis subcordatis obtusis nervosis sessilibus, paniculis terminalibus dichotomo-corymbosis, petalis calyce lanceolato brevioribus.*—*Willd. sp. pl.* 3. p. 1456. *parviflorum*.

H. quinquenervium. *Walt. fl. car.* 190.

H. mutilum. *Willd. sp. pl.* 3. p. 1471.

In overflowed places: Canada to Carolina. $\frac{1}{2}$. June—Sept. *v. v.* Flowers small; size very variable.

- triplinerve*. 17. *H. erectum*, subramosum; caule subancipiti, foliis linearibus patentissimis triplinerviis, floribus racemoso-paniculatis, corolla inæquali, calycibus acutis petalisque serrato-glandulosis.—*Vent. hort. cels* 58.
On the banks of the Ohio. *Michaux*. ♀. July, Aug. +. Flowers the size of *H. perforatum*, pale yellow.
- dolabriforme*. 18. *H. erectum*, ramosum; caule ancipiti, foliis lineari-lanceolatis patentibus obtusis, corymbo terminali dichotomo, calycibus inæqualibus lanceolatis, petalis dolabriformibus.—*Vent. hort. cels* 45.
On dry hills of Kentucky. *Michaux*. ♀. June, July. +. Flowers golden yellow.
- angulosum*. 19. *H. erectum*; caule tetragono, foliis oblongis acutis arcte sessilibus, panícula terminali dichotoma, ramis divaricatis distanter alternifloris, calycibus subcampanulatis, laciniis lanceolatis acutis inferne carinatis longitudine fere corollæ, petalis dente unico laterali.—*Willd. sp. pl.* 3. p. 1454? *Mich. fl. amer.* 2. p. 78.
H. denticulatum. *Walt. fl. car.* 190.
In bogs and cedar-swamps: New Jersey and Carolina. ♀. June, July. v. v. About a foot high; flowers of a beautiful copper colour, of considerable size.
- sphaerocar-pum*. 20. *H. erectum*, glaberrimum; foliis oblongis, panícula nuda dichotoma, dichotomis omnibus unifloris, stylis coadunatis, capsula globosa.—*Mich. fl. amer.* 2. p. 78.
In Kentucky. *Michaux*. ♀. +.
- canadense*. 21. *H. erectum*, pusillum, parviflorum; caule tetragono superne dichotomo, foliis sessilibus linearibus basi attenuatis, paniculae ramis primariis oppositis, secundariis dichotomis, capsulis longis conoideis coloratis.—*Willd. sp. pl.* 3. p. 1455.
In low gravelly soil; Canada to Carolina. ☉. June—Aug. v. v. Flowers very small; capsules red.
- Sarothra*. 22. *H. pusillum*, erectum, setaceo-ramosissimum; quasi aphyllum; foliis minutis appressis, floribus in ramulis solitarie alternis 5—10-andris, capsulis oblongis 1-locularibus.—*Mich. fl. amer.* 2. p. 79.
H. nudicaule. *Walt. fl. car.* 190.
Sarothra gentianoides. *Willd. sp. pl.* 1. p. 1515.
Icon. *Pluk. mant.* t. 342. f. 2.
In dry sunny situations: New England to Carolina. ☉. June—Aug. v. v. A singular little species; flowers very small; the number of stamina is very variable, according to soil and situation.

23. *H. erectum*, simplicissimum, lanulosum; caule tereti, foliis oblongis adpressis, floribus paucis terminalibus. *Mich. fl. amer.* 2. p. 80. *simplex.*
H. pilosum. *Walt. fl. car.* 190.
H. ferrugineum. *Herb. Banks. mss.*
Ascyrum villosum. *Willd. sp. pl.* 3. p. 1474.
Icon. Pluk. alm. t. 245. f. 6.
 In Lower Carolina and Georgia. ☉. July, Aug. *v. s.*
24. *H. procumbens*, glaberrimum; ramis ancipitibus summitate paucifloris, foliis linearibus enerviis patulis, calycinis foliolis oblongo-lanceolatis acutis, staminibus corolla brevioribus, stylis coadunatis.—*Mich. fl. amer.* 2. p. 81. *Willd. sp. pl.* 3. p. 1450? *procumbens.*
 On dry sunny hills of Kentucky. *Michaux.* +. The calyx is as large as the corolla.

450. ELODEA. *Adanson.**Hyperici sp. Linn.*

1. *E. foliis sessilibus amplexicaulibus cordato-oblongis obtusissimis, fasciculis pedunculatis paucifloris axillaribus et terminalibus, corollis subcampanulatis, staminibus 9—12. levissime basi coalitis.* *campanulata.*
Hypericum virginicum. *Willd. sp. pl.* 3. p. 1455.
Hypericum campanulatum. *Walt. fl. car.* 191.
Icon. Bot. rep. 552.
- β. *E. foliis cordato-ovatis emarginatis, pedunculis axillaribus elongatis.* *emarginata.*
Hypericum emarginatum. *Lam. encycl.* 4. p. 154.
 In bogs and wet meadows: Canada to Carolina. 2. July—Sept. *v. v.* β. *v. s.* in *Herb. Lambert.* Flowers yellowish-red, very handsome.
2. *E. foliis sessilibus, corollis tubulosis, staminibus plusquam ad medium connatis.* *tubulosa.*
Hypericum tubulosum. *Walt. fl. car.* 191.
 In Carolina. *Walter.* +. I observed in the vicinity of the Dismal-swamp in North Carolina, a species belonging to this genus, of which I have no specimen in my Herbarium, and which probably may be the species alluded to by Walter. The leaves are elliptic and acute; the flowers nearly sessile in the axils of the leaves, solitary or by two or three; the petals are long and acute, pale red; capsules long, prismatic.
3. *E. foliis petiolatis oblongo-ovalibus rotundato-obtusis,* *petiolata.*

floribus oppositis axillaribus subsessilibus subternis, staminibus ad medium usque connatis, capsulis oblongis.

Hypericum petiolatum. *Walt. fl. car.* 191.

Hypericum axillare. *Mich. fl. amer.* 2. p. 81.

On banks of lakes and rotten wood: Virginia and Carolina. ♀. July, Aug. v. v.

III. POLYGYNIA.

451. ILLICIUM. *Gen. pl.* 940.

- floridanum.* 1. I. foliis acuminatis, petalis numerosis oblongis linearibusque.—*Willd. sp. pl.* 2. p. 1254.
Icon. *Bot. mag.* 439.
On the banks of the Mississippi, in West Florida. ♀.
May, June. v. v. Flowers dark purple, large; leaves of a very aromatic anise-scent, when bruised.
- parviflorum.* 2. I. foliis obtusis, petalis sex calyceque rotundatis concavis.
—*Mich. fl. amer.* 1. p. 326.
I. anisatum. *Bartr. trav.* 24.
Icon. *Vent. hort. cels* 22.
In East Florida, on the banks of the river St. John.
Michaux. ♀. May, June. v. v. in *Hortis*. Flowers small, yellow.

452. MAGNOLIA. *Gen. pl.* 942.

- grandiflora.* 1. M. foliis perennantibus ovalibus crassis coriaceis, petalis dilatato-obovatis abrupte in unguem angustatis.—
Willd. sp. pl. 2. p. 1255.
- elliptica.* α. M. foliis oblongo-ellipticis subtus ferrugineis, floribus subcontractis. *Ait. kew.* 2. p. 251.
Icon. *Bot. rep.* 518. *Trew ehret.* 33.
- obovata.* β. M. foliis obovato-oblongis, floribus expansis. *Ait. l. c.*
- lanceolata.* γ. M. foliis oblongo-lanceolatis apice flexis concoloribus, floribus subcontractis. *Ait. l. c.*
Icon. *Mill. ic.* 172. *Catesb. car.* 61. *Mich. arb. t.* 1.
In the forests of South Carolina and Georgia, reaching west to the Mississippi. ♀. May—Aug. v. v. This stately tree, with its elegant foliage and large white flowers, is the prince of the forests of North America. The varieties here mentioned might easily be considered as good species, if there were not so many intermediate ones, which connect them too closely to-

gether. In Carolina it is known by the name of *Big Laurel*.

2. *M. foliis ovalibus subtus glaucis, petalis obovatis basi attenuatis.*—*Willd. sp. pl.* 2. p. 1256. *glauc.*

- α. *M. foliis deciduis ovali-oblongis obtusiusculis.*—*Ait. kew.* 2. p. 251. *latifolia.*

Icon. *Dill. elth. t.* 168. *f.* 205. *Catesb. car.* 1. *t.* 39. *Trew chret. 9. Mich. arb. t.* 2.

- β. *M. foliis perennantibus ellipticis utrinque acutis.*—*Ait. l. c.* *longifolia.*

In swamps covered with wood : New Jersey to Carolina. β. Georgia and Florida. *h.* May—July. *v. v.* A small tree ; flowers white, very fragrant. The variety β. is a taller tree, the branches more upright, and the leaves narrow and long ; it might with propriety be considered a distinct species. This species is known by the names of *Swamp Sassafras*, *Sweet Bay*, *Swamp Laurel*, and *Beaver-wood*.

3. *M. ramis medullosis fragilibus, foliis amplissimis oblonge subcuneato-obovalibus basi sinuata subauriculatis subtus glaucis, petalis 6. ovatis obtusis.*—*Mich. fl. amer.* 1. p. 327. *macrophylla.*

Icon. *Mich. arb. t.* 7.

In the deep forests of Tennessee. *h.* May—July. *v. v. s. fl.* This stately small tree, with its extremely large leaves and white flowers, tinged at the bottom with red, which are larger than *M. grandiflora*, is one of the most ornamental trees America produces.

4. *M. foliis amplis oblonge subcuneato-obovalibus acutis, junioribus holosericeis, petalis 9. ellipticis acutis, exterioribus reflexis.*—*Willd. sp. pl.* 2. p. 1258. *tripetala.*

M. umbrella. Lam. encycl. 3. p. 644.

Icon. *Catesb. car.* 2. *t.* 80. *Mich. arb. t.* 5.

In the mountains of Virginia and Carolina. *h.* June, July. *v. v.* Leaves large ; flowers white, the size of *M. grandiflora*, and very fragrant. It is generally known by the name of *Umbrella-tree* ; in the mountains they call it *Elk-wood*.

5. *M. foliis ovalibus acuminatis subtus pubescentibus, petalis obovatis obtusiusculis.*—*Willd. sp. pl.* 2. p. 1257. *acuminata.*

Icon. *Catesb. car.* 3. *t.* 15. *Mich. arb. t.* 3.

In high mountain-valleys, in fertile soil : Pennsylvania to Carolina. *h.* June, July. *v. v.* Flowers a dim yellow mixed with a faint blue, not much larger than those

of *M. glauca*. It is generally known by the name of *Cucumber-tree*, and its fruits are used as a wholesome bitter among the inhabitants.

- cordata*. 6. *M. foliis cordatis subtus subtomentosis, petalis lanceolato-oblongis acutis*.—*Mich. fl. amer.* 1. p. 328.
Icon. *Mich. arb.* t. 4.
On dry ridges of mountains in Upper Carolina and Georgia. η . *v. v. s. fl.* Flowers yellow.
- auriculata*. 7. *M. foliis amplis obovato-lanceolatis acutis subtus glaucis basi cordatis auriculatis, lobis approximatis, petalis ovatis acutis sub-unguiculatis*.—*Willd. sp. pl.* 2. p. 1258.
M. auricularis. Parad. lond. 43.
M. Fraseri. Walt. fl. car. 159.
Icon. *Bot. mag.* 1206. *Bot. rep.* 573. *Mich. arb.* t. 6.
In the Allegany mountains, from the head-waters of the Susquehanna to Carolina. η . April, May. *v. v.*
A beautiful tree; flowers yellowish white, large. The bark of this and some of the foregoing species is esteemed a valuable medicine, particularly in intermitting fevers; from which circumstance it is known in some places by the name of *Indian Physic*.
- pyramidata*. 8. *M. foliis rhomboideo-obovalibus abrupte acutis concoloribus basi subcordatis auriculatis, lobis divaricatis, petalis lanceolatis sensim acutis*.—*Bartr. trav. p.* . . .
M. auriculata. Mich. fl. amer. 1. p. 328.
In the western parts of Carolina and Georgia. η . April, May. *v. v.* This species has generally been confounded with the foregoing one, from which it not only differs in the distinctions given above, but in general habit: the tree is of a more upright pyramidal growth, and the leaves not one fourth the size of *M. auriculata*.

453. LIRIODENDRON. *Gen. pl.* 941.

- tulipifera*. 1. *L. foliis abscisso-truncatis 4-lobatis, calyce triphylo*.—*Willd. sp. pl.* 2. p. 1254.
- acutiloba*. α . *L. lobis acutis acuminatisque*. *Mich. fl. amer.* 1. p. 326.
Icon. *Bot. mag.* 275. *Schmidt arb.* 48. *Catesb. car.* 1. t. 48. *Mich. arb.* t. . . .
- obtusiloba*. β . *L. lobis rotundato obtusissimis*. *Mich. l. c.*
In fertile ground: Canada to Florida. β . in Pennsylvania.
 η . June, July. *v. v.* A highly ornamental and use-

ful timber tree; flowers yellow and red, mixed with green. Generally known by the name of *Tulip-tree*, or *White* and *Yellow Poplar*.

454. PORCELIA. *Prodr. fl. peruv. p.* 84.

Orchidocarpum. *Mich. fl. amer. 1. p.* 329.

1. P. foliis glabriusculis oblonge cuneato-obovatis, petalis exterioribus orbiculatis, fructibus magnis carnosiss.—*Pers. syn. 2. p.* 95.

triloba.

Anona triloba. Willd. sp. pl. 2. p. 1267.

Orchidocarpum arietinum. *Mich. fl. amer. 1. p.* 329.

Icon. *Catesb. car. 2. t.* 83. *Trew chret. 5. Duham. arb. 1. t.* 19.

On the overflowed banks of rivers: Pennsylvania to Florida. $\frac{1}{2}$. March, April. *v. v.* A small tree; flowers dark brown; fruits large, eatable.

2. P. foliis cuneato-obovatis basi acutis ramulisque rufo-pubescentibus, petalis omnibus ovalibus, fructibus ovatis subcarnosis.—*Pers. syn. 2. p.* 95.

parviflora.

Orchidocarpum parviflorum. *Mich. fl. amer. 1. p.* 329.

In shady woods, near rivers and lakes: Virginia to Georgia. $\frac{1}{2}$. April, May. *v. v.* A low shrub, sometimes not above two feet high, when in full fruit; flowers small, dark purple.

3. P. foliis elongato-lanceolatis cuneatisve lævigatis, petalis exterioribus majoribus obovato-oblongis, interioribus longioribus.—*Pers. syn. 2. p.* 95.

pygmæa.

Orchidocarpum pygmæum. *Mich. fl. amer. 1. p.* 330.

Anona pygmæa. Willd. sp. pl. 2. p. 1268.

Icon. *Bartr. trav. t.* 1.

In sandy fields: Georgia and Florida. $\frac{1}{2}$. *v. v.* Flowers the size of *Anona squamosa*; the whole shrub not above a foot high.

4. P. foliis cuneato-obovalibus basi obtusis ramulisque rufo-pubescentibus, petalis exterioribus majoribus obovatis, interioribus oblongis.—*Pers. syn. 2. p.* 95.

grandiflora.

Orchidocarpum grandiflorum. *Mich. fl. amer. 1. p.* 330.

Anona obovata. Willd. sp. pl. 2. p. 1269.

Icon. *Bartr. trav. t.* 2.

In sandy woods, in shady places: Georgia and Florida. $\frac{1}{2}$. May. *v. s.* A small shrub: flowers very large in proportion, white.

455. ATRAGENE. *Gen. pl.* 949. *Sims in bot. mag.* 887.*americana.*

- 1.
- A. foliis quaternis ternatis, foliolis cordatis subintegerri-
mis, nectariis acutis.*
- Sims l. c.*
- cum icone.

In shady places, on the side of rivulets, climbing and
creeping among loose rocks : New York and Pennsyl-
vania, near the foot of the Blue-mountains. $\frac{1}{2}$. May,
June. *v. v.* Flowers large, purple.

456. CLEMATIS. *Gen. pl.* 960.*virginica.*

- 1.
- C. scandens; foliis ternatis, foliolis ovatis subcordatis
inciso-dentatis lobatisque, corymbis dichotomis pauci-
floris, petalis staminibus longioribus, floribus dioicis.*
-
-
- Willd. sp. pl.*
- 2.
- p.*
- 1290.

In hedge-rows and among small shrubberies on the side
of woods : Canada to Florida. $\frac{1}{2}$. June—Aug. *v. v.*
Flowers small, white, and fragrant.

cordata.

- 2.
- C. scandens; foliis pinnatis bijugis, foliolis cordatis lo-
batis acuminatis inciso-dentatis, dentibus mucronatis,
racemis compositis elongatis multifloris, staminibus
petalis subæquantibus, floribus dioicis.*

On high mountains : Virginia. $\frac{1}{2}$. July. *v. v.* Flowers
resembling the former species. In general appearance
it approaches near to *C. Vitalba*.

holosericea.

- 3.
- C. scandens, tota holosericeo-pubescent; foliis ternatis
oblongo-lanceolatis integris utrinque pubescentibus,
corymbis trichotomis paucifloris, petalis linearibus sta-
minibus longioribus, floribus dioicis.*

In Carolina. $\frac{1}{2}$. *v. s. in Herb. Walter.* The flowers
small, white; tails of the seeds very long, feathered.

Walteri.

- 4.
- C. scandens; foliis pinnatis cirrhosis trijugis, foliolis
divaricatis petiolatis lineari-lanceolatis acutis integerri-
mis subtus glaucis, floribus solitariis, petalis ellipticis
staminibus duplo longioribus.*

In Carolina. $\frac{1}{2}$. *v. s. in Herb. Walter.* Flowers white.

crispa.

- 5.
- C. scandens; foliis pinnatis ternatisque, foliolis divarica-
tis ovato-lanceolatis acutis trilobisve integerrimis, flo-
ribus solitariis, corollis campanulatis acuminatis revo-
lutis margine undulatis, aristis seminum subulatis nu-
dis.*
-
- Willd. sp. pl.*
- 2.
- p.*
- 1289.

Icon. *Dill. elth. t.* 73. *f.* 84.

In hedges and among bushes on the side of rivers : Vir-

ginia and Carolina. $\frac{1}{2}$. July, Aug. *v. v.* Flowers large, purple.

6. *C. scandens*; foliis pinnatis, foliolis ovatis utrinque acutis glabris simplicibus pedicellatis, pedunculis terminalibus solitariis, corollis cernuis cylindricis, petalis subcoriaceis undulatis conniventibus, aristis seminum plumosis.—*Sims in bot. mag.* 1160. *cylindrica.*

C. Viorna. Bot. rep. 71.

In Virginia and Carolina. $\frac{1}{2}$. June—Aug. *v. v.* Flowers large, of a fine pale purplish blue.

7. *C. scandens*; foliis pinnatis 4-jugis, foliolis ovatis utrinque obtusis omnibus integris petiolatisque membranaceis utrinque reticulato-venosis, floribus solitariis, petalis subcoriaceis, aristis seminum plumosis.—*Walt. fl. car.* 156. *Mich. fl. amer.* 1. p. 318. *reticulata.*

C. rosea. Abbot insect. t.

In Georgia and Carolina. $\frac{1}{2}$. June, July. *v. s. in Herb. Walter.* Flowers resembling the following species, pale purplish-red.

8. *C. scandens*; foliis divaricato-compositis decompositisque, foliolis ovali-lanceolatis utrinque acutis trifidisque integerrimis, floribus solitariis campanulatis, petalis crassis acuminatis.—*Willd. sp. pl.* 2. p. 1288. *Viorna.*

Icon. Bot. rep. 71. *Dill. elth. t.* 118. f. 144.

In hedges and copses: Virginia and Carolina. $\frac{1}{2}$. June—Aug. *v. v.* Flowers dark blue, large.

9. *C. erecta, simplex*; foliis hirsutissimis bipinnatifidis incisis, laciniis linearibus acutis, caulinis composite-multifidis, pedunculo terminali solitario, flore erecto campanulato, petalis 4. erectis ovatis obtusiusculis apice reflexis. *hirsutissima.*

On the plains of Columbia river. $\frac{1}{4}$. May. *v. s. in Herb. Lewis.* The whole plant is covered with a close coat of long hairs like *Anemone Pulsatilla*, which it very much resembles in several respects. I consider all the division of *Anemones* with caudated seeds to belong to this genus, or at least to one separate from *Anemone*.

10. *C. erecta, simplex, pubescens*; foliis simplicibus ovalibus integerrimis, junioribus calycibusque extus incano-sericeis, pedunculo terminali solitario, flore cernuo.—*Mich. fl. amer.* 1. p. 319. *sericea.*

C. ochroleuca. Willd. sp. pl. 2. p. 1294.

Icon. Bot. mag. 1175.

On the banks of rivers : Pennsylvania and Virginia ; rare.
 ♀. May—July. *v. v.* About a foot high ; flowers
 inside yellow.

457. ANEMONE. *Gen. pl.* 948.

nemorosa. 1. *A. caule unifloro, foliis caulinis ternis ternatis, foliolis cuneatis inciso-lobatis dentatis acutis, corollis 5-6-petalis, seminibus ovatis stylo brevi uncinatis.*—*Willd. sp. pl.* 2. *p.* 1281.

Icon. Fl. dan. 549. *Engl. bot.* 355.

quinquefolia. β. *A. foliis lateralibus profunde bipartitis.* *Willd. sp. pl.* 2. *p.* 1281.

Icon. Pluk. alm. t. 106. *f.* 3.

In shady woods, round the roots of trees : Canada to Carolina. ♀. March, April. *v. v.* Flowers white, with a tinge of red on the under side ; sometimes nearly double. Var. β. can never be considered as a species, as there are intermediate varieties between it and the original species.

lancifolia. 2. *A. caule unifloro, foliis caulinis ternis ternatis, foliolis lanceolatis crenato-dentatis, corollis 5-petalis, seminibus ovatis stylo brevi uncinatis.*

A. trifolia. Willd. sp. pl. 2. *p.* 1281 ?

On high mountains, in boggy soil : Pennsylvania and Virginia. ♀. May—July. *v. v.* Resembles the foregoing species ; flowers larger, and clear white.

cuneifolia. 3. *A. caule unifloro involucrato, foliis ternatis, foliolis sessilibus cuneatis apice truncato-crenatis, involucri 3-phylo, corollis 5-petalis, seminibus capitato-globosis lanatis acuminatis.*—*Juss. in annal. du mus.* 3. *p.* 248. *t.* 21. *f.* 1.

A. parviflora. Mich. fl. amer. 1. *p.* 319.

A. tenella. Herb. Banks.

On the banks of rivulets, near Hudson's Bay and Labrador. ♀. March—May. *v. s. in Herb. Dickson.* Flowers white, the size of No. 1.

tenella. 4. *A. caule unifloro involucrato, foliis subbiterternatis, foliolis 3-fidis seu 3-dentatis acutis involucri 3-partito, laciniis incisis, petalis 12—15-linearibus, seminibus lanatis mucronatis, radice tuberosa.*

A. caroliniana. Walt. fl. car. 157.

On the banks of the Missouri. *M. Lewis.* In Carolina. *Walter.* ♀. May. *v. s. in Herb. Lewis.* Flowers

purple, small; the whole plant very slender and delicate; roots tuberous.

5. *A. caule unifloro nudo, foliis palmatis longius petiolatis, corolla 5-petala, radice tuberosa.* *Walteri.*

Thalictrum carolinianum. Walt. fl. car. 157.

In Carolina. *Walter. U. +.* I was not able to find any information respecting this plant in the Walterian Herbarium, but consider it to belong rather to this genus than to *Thalictrum*.

6. *A. floribus umbellatis involucretis, foliis radicalibus bitermatis, foliolis subcordatis 3-dentatis, involucre 6-phyllo, foliolis petiolatis conformibus, umbella pauciflora, seminibus nudis striatis, radice tuberosa.—Willd. sp. pl. 2. p. 1284.* *thalictroides.*

Thalictrum anemonoides. Mich. fl. amer. 1. p. 322.

Icon. *Bot. mag. 866. Annales du mus. 3. t. 21. f. 2. a.*

♂ b. Pluk. alm. t. 106. f. 4. Willd. hort. berol. 44.

- β. *A. involucre unifloro. Gronov. virg.* *uniflora.*

In woods, frequent: Canada to Carolina. *U.* March—May. *v. v.* Flowers white. A beautiful double variety is cultivated in the gardens, which in delicacy of figure and colour exceeds any other species of this elegant genus.

7. *A. floribus umbellatis involucretis, foliis radicalibus multifido-palmatis incis, laciniis linearibus, involucre sessilibus incis, umbella pauciflora, pedicellis involucre longioribus.—Willd. sp. pl. 2. p. 1283.* *narcissiflora.*

In Canada and on the north-west coast. *U.* April, May. *v. s.* Flowers white.

8. *A. caule dichotomo, foliis radicalibus palmatis, caulinis sessilibus amplexicaulibus 3-fidis: infimis ternatis: lobis acute lanceolatis inciso-serratis, pedunculis solitariis unifloris, seminibus capitulo globoso nudis subulato-rostellatis.—Willd. sp. pl. 2. p. 1280.* *pensylvanica.*

A. aconitifolia. Mich. fl. amer. 1. p. 320.

In meadows and on the borders of woods: Canada to Pennsylvania. *U.* June, July. *v. v.* Flowers large, white; anthers yellow.

9. *A. caule dichotomo, foliis caulinis omnibus oppositis amplexicaulibus trifidis, lobis cuneato-lanceolatis superne inciso-serratis, pedunculis solitariis unifloris, seminibus capitulo globoso nudis recurvato-mucronatis. Willd. sp. pl. 2. p. 1280.* *dichotoma.*

A. irregularis. Lam. encycl. 1. p. 167.

Icon. *Linn. fl. dec.* 2. t. 15.

In wet woods and natural meadows: Canada and the western parts of New York. *¶*. May, June. *v. v.* Flowers white, with a tinge of red on the under side, smaller than the foregoing species.

- virginiana*. 10. *A. caule dichotomo, foliis ternis ternatis, superioribus oppositis, foliolis inciso-lobatis serratisque acutis, pedunculis solitariis unifloris elongatis, seminibus capitulo oblongo lanatis mucronatis.*—*Willd. sp. pl.* 2. p. 1279.

Icon. *Herm. parad.* t. 18.

In woods, on the side of dry sandy hills: Canada to Carolina. *¶*. May, June. *v. v.* Flowers small, greenish-yellow.

458. THALICTRUM. *Gen. pl.* 951.

- Cornuti*. 1. *T. foliis supradecompositis, foliolis ovatis trifidis, paniculis terminalibus.*—*Willd. sp. pl.* 2. p. 1296.

Icon. *Corn. canad.* 186.

On the banks of rivers and in wet meadows: Canada to New England. *¶*. June, July. *v. v.* From two to three feet high; flowers small and greenish-yellow.

- dioicum*. 2. *T. lævigatum; foliis supradecompositis, foliolis subrotundis cordatis obtuse-lobatis subtus glaucis lævibus, paniculis axillaribus filiformibus folio brevioribus, floribus parvis in umbellis paucifloris.*—*Willd. sp. pl.* 2. p. 1296.

T. lævigatum. Mich. fl. amer. 1. p. 322.

In shady woods and on the banks of rivers: Canada to Virginia. *¶*. May—July. *v. v.* Not above a foot high; flowers white.

- rugosum*. 3. *T. caule striato, foliis supradecompositis, foliolis ovatis lanceolatisque rugosis venosis obtuse-lobatis, paniculis amplis terminalibus.*—*Willd. sp. pl.* 2. p. 1298.

On the banks of rivers and in swamps: Pennsylvania to Carolina. *¶*. June—Aug. *v. v.* Very tall, sometimes above five feet high; flowers white.

- pubescens*. 4. *T. tenui tomento pubescens; foliis supradecompositis, foliolis ovatis subcordatis cuneatisque apice 3-lobis, supra subrugosis, subtus subtomentosis, paniculis terminalibus, pedicellis subumbellatis divaricatis, floribus polygamis.*

T. polygamum. Muhlb. mss.

On the banks of ditches and rivulets : Pennsylvania and Virginia. $\mathcal{U}$. June—Aug. *v. v.* A tall species ; flowers white.

5. *T. caule foliis duplo altiore, foliis compositis, foliolis purpurascens, subrotundis 3-fidis incisis, paniculis nudiusculis, floribus cernuis, staminibus coloratis.*—*Willd. sp. pl.* 2. p. 1299.

On dry sunny hills : Pennsylvania and Virginia. $\mathcal{U}$. May, June. *v. v.* A small plant ; stem and filaments purple.

6. *T. foliis simplicibus 5-lobis serratis, floribus corymbosis.* —*Willd. enum.* 585.

ranunculi-
num.

In Carolina. *Willdenow.* $\mathcal{U}$. +. Flowers resembling those of *T. speciosum*.

459. HYDRASTIS. *Gen. pl.* 958.

1. *H. caule superne opposite diphylo, foliis petiolatis basi emarginatis palmatis serratis incisis, pedunculo terminali solitario unifloro.*—*Willd. sp. pl.* 2. p. 1340.

Icon. *Mill. ic.* t. 285.

In shady woods, on fertile soil and among rocks : Canada to Carolina, principally in the Allegany mountains. $\mathcal{U}$. April, May. *v. v.* Flowers pale rose-coloured ; berry red. The roots are yellow, and afford a fine dye.

canadensis.

460. BRASENIA. *Gen. pl.* 938.

Hydropeltis. Mich. fl. amer. 1. p. 323.

1. *B. foliis centro peltatis ovalibus integerrimis, pedunculis solitariis unifloris.*

peltata.

Hydropeltis purpurea. Mich. fl. amer. 1. p. 324. t. 29.

Icon. *Bot. mag.* 1147. *Pluk. alm.* t. 349. f. 3.

In lakes and slow-flowing waters : New Jersey to Carolina. $\mathcal{U}$. June—Aug. *v. v.* Floating on the water ; the whole plant has a purple colour ; the flowers dark purple, the size of *Caltha* ; the petioles and under surface of the leaves are covered with a transparent gelatinous substance.

461. CALTHA. *Gen. pl.* 957.

1. *C. caule erecto unifloro unifolio, foliis radicalibus cordato-ovatis obtusissimis paucidentatis multinerviis, petalis ellipticis.*

ficarioides.

Ranunculus Ficaria. *Walt. fl. car.* 159.

In shady cedar-swamps of New Jersey and Carolina.
 24. June, July. *v. v.* Flowers deep yellow, the size
 of *Ranunculus Ficaria*.

integerrima. 2. *C. caule erecto corymboso, foliis integerrimis sinu clauso orbiculato-cordatis, floralibus sessilibus reniformibus basi obsolete crenatis, petalis obovalibus.*

In wet meadows and small rivulets: New England to Virginia. 24. May—July. *v. v.* Flowers yellow, smaller than the following species.

palustris. 3. *C. caule erecto corymboso, foliis cordato-reniformibus: lobis patulis, circumcirca acute-crenatis, floralibus subsessilibus, petalis ovatis.*—*Willd. sp. pl.* 2. p. 1338.

Icon *Fl. dan.* 668. *Engl. bot.* 506.

In low boggy meadows: Canada to Pennsylvania. 24. April—June. *v. v.* Flowers golden yellow, large.

flabellifolia. 4. *C. caule procumbente, foliis dilatato-reniformibus: lobis patentissimis, circumcirca argute acuteque dentatis, pedunculis axillaribus solitariis unifloris, petalis obovatis, capsulis rostro adunco.*

In a large sand-spring on Pokono-mountain, Pennsylvania. 24. July, Aug. *v. v.* Flowers yellow, the size of *Ranunculus arvensis*. This plant has some affinity with *C. natans* *Willd. sp. pl.* 2. p. 1339. of which I have seen perfect specimens in the Herbarium of A. B. Lambert, Esq., collected by Pallas in the most eastern parts of Siberia, under the name of *C. pusilla*, which I distinguish by the following diagnosis: *Caltha natans*, caule procumbente natante, foliis cordato-reniformibus: lobis subapproximatis, postice obsolete crenatis, antice dentatis, petalis ovalibus, capsulis rostro recto. The flowers of that species are white, with a tinge of red, of the same size as the present species.

462. COPTIS. *Salisb. in linn. trans.* 8. p. 305.

trifolia. 1. *C. foliis ternatis, foliolis rotundato-obovalibus acuminato-crenatis, scapo unifloro.*—*Salisb. l. c.*

Helleborus trifolius. *Willd. sp. pl.* 2. p. 1338.

Icon *Fl. dan.* 566.

In cedar-swamps and mountain bogs: Canada to Virginia. 24. May—July. *v. v.* A delicate small plant; flowers white.

Caltha flabellifolia.

2. *C. foliis biternatis, foliolis subpinnatifidis, scapo bifloro.* *asplenifolia.*
 —*Salisb. l. c. p. 306.*
 On the north-west coast. *Menzies. 2. v. s. in Herb.*
Banks. Flowers larger than the foregoing one.

463. *TROLLIUS. Gen. pl. 954.*

1. *T. petalis 5, obtusis patulis, nectariis staminibus brevioribus.* *Salisb. in linn. trans. 8. p. 303.* *laxus.*
T. americanus. Donn catal.
T. pentapetalus. Herb. Banks.
 In shady wet places, on the mountains of New York and Pennsylvania. *2. May—July. v. v.* Flowers yellow, the size of *Ranunculus acris*.

464. *HEPATICA. Willd. enum. . . .*

1. *H. foliis trilobis integerrimis, scapis unifloris.*—*Willd. enum.* *triloba.*
Anemone Hepatica. Willd. sp. pl. 2. p. 1273.
Icon. Bot. mag. 10. Fl. dan. 610.
α. H. lobis rotundatis obtusis. *obtusa.*
β. H. lobis ovalibus acutis. *acuta.*
 In woods, on the side of fertile and rocky hills: Canada to Carolina. *2. March—May. v. v.* Flowers blue or purple; generally smaller than in the European plant.

465. *RANUNCULUS. Gen. pl. 953.*

* *Foliis simplicibus, integris.*

1. *R. glaber, caule declinato, foliis angusto-lanceolatis acutis integerrimis denticulatisque, inferioribus petiolatis, pedunculis terminalibus axillaribus unifloris, calycibus subreflexis.*—*Willd. sp. pl. 2. p. 1307.* *Flammula.*
Icon. Fl. dan. 575. Engl. bot. 387.
 In inundated places and small rivulets: Pennsylvania and Virginia. *2. July—Sept. v. v.* Flowers deep yellow, small.
 2. *R. adpresso-pilosus; foliis lanceolatis subdenticulatis acuminatis subsessilibus, caule erecto multifloro.*—*Lingua.*
Willd. sp. pl. 2. p. 1308.
Icon. Engl. bot. 100. Fl. dan. 755.
 On the banks of rivers, among scirpus and other river plants: Pennsylvania and Virginia. *2. July, Aug.*

v. v. Resembles the preceding one, but is upright, the flowers larger and in greater abundance.

pusillus.

3. *R. glaber*; foliis petiolatis, inferioribus ovatis dentatis, superioribus lineari-lanceolatis apice dentatis, supremis linearibus bracteiformibus, pedunculis alternis solitariis unifloris.

R. flammula. Walt. fl. car. 159. Mich. fl. amer. 1. p. 321.

¶. June -- Aug. *v. s. in Herb. Enslen.* A small species, with exceeding small flowers, petals pale yellow.

filiformis.

4. *R. glaber, pusillus*; caulibus filiformibus repentibus geniculatis, geniculis unifloris, foliis lineari-subulatis obtusis. — *Mich. fl. amer. 1. p. 320.*

In inundated places, on the river St. Lawrence, Hudson's Bay, and Labrador. ¶. June, July. *v. s. in Herb. Banks.* Resembles *R. reptans* very much.

Cymbalaria.

5. *R. glaber, minimus, filiformis, repens, ad genicula radicans*; foliis cordato-reniformibus obtuse 5-dentatis, pedunculis radicalibus solitariis plerumque bifloris, petalis linearibus, fructibus oblongis.

In saline marshes near the salt-works of Onondago, New York. ¶. June, July. *v. v.* Flowers the size of the foregoing one, pale yellow, sometimes white. This little plant has some resemblance to *R. salsuginosus* of Pallas, whose specimens I had an opportunity of seeing in the collection of A. B. Lambert, Esq. and which may be distinguished by the following diagnosis: *R. glaber, filiformis, repens, ad genicula radicans*; foliis ovatis rariter cordatis apice 3-dentatis, pedunculis radicalibus solitariis plerumque unifloris, petalis obovatis, fructibus subglobosis. The flowers are more than ten times larger than in *R. Cymbalaria*.

** *Foliis dissectis et divisis.*

abortivus.

6. *R. glaber*; caulibus striatis inferne nudis, foliis radicalibus cordato-reniformibus obtuse-crenatis, caulinis petiolatis ternatis angulatis, superioribus sessilibus, ramulis subtrifloris. — *Willd. sp. pl. 2. p. 1314.*

In wet places on the side of ponds and ditches: New York to Carolina. ¶. July, Aug. *v. v.* Flowers small, yellow.

nitidus.

7. *R. glaberrimus*; caulibus fistulosis, foliis radicalibus rotundato-subreniformibus obtuse-crenatis, caulinis ses-

silibus digitatis, foliolis incisiss, laciniis obtusis, seminibus subglobosis glaberrimis.—*Walt. fl. car.* 159. *Lam. encycl. O. p.* 126.

In inundated grounds: New York to Carolina. $\mathcal{U}$. July, Aug. *v. v.* Flowers small; petals white. This and the foregoing one are nearly related to each other, and probably only varieties of the same species, though distinguished by Walter and Lamarck.

8. *R. glaber*; foliis inferioribus palmatis, superioribus sessilibus digitatis, fructibus oblongis.—*Willd. sp. pl.* 2. *p.* 1315.

sceleratus.

Icon. *Fl. dan.* 571. *Engl. bot.* 681.

In ponds and ditches: Canada to Virginia. $\mathcal{U}$. June—Aug. *v. v.* Flowers yellow, small.

9. *R. pubescens*; foliis radicalibus reniformibus tripartitis inciso-crenatis, caulinis sessilibus digitatis linearibus, caule multifloro, calyce colorato patente.—*Willd. sp. pl.* 2. *p.* 1314.

auricomus.

Icon. *Fl. dan.* 665. *Engl. bot.* 624.

In old meadows and woods: Pennsylvania. $\mathcal{U}$. May, June. *v. v.* Flowers yellow, middle-sized.

10. *R. pusillus*, glaber; foliis radicalibus subcordato-reniformibus inciso-dentatis, caulinis sessilibus digitatis, laciniis linearibus integerrimis, caule paucifloro, petalis oblongis calyce subæquantibus.

pygmæus.

In Labrador. *Colmaster. U.* May, June. *v. s. in Herb. Dickson.* Flowers small, yellow; it approaches very near to *R. nivalis*.

11. *R. pilosus*, erectus, ramosus; foliis ternatis trifidis incisiss subtus pilosis, pedunculis teretibus, calycibus reflexis, petalis calyce subæquantibus.—*Willd. sp. pl.* 2. *p.* 1323.

pensylvanicus.

R. canadensis. Jacq. ic. rar. 1. *t.* 105.

In low meadows: Canada to Pennsylvania; rare. $\mathcal{U}$. July, Aug. *v. v.* Flowers the size of *R. acris*.

12. *R. hirsutissimus*; foliis compositis: ternatis trifidis incisiss dentatisque, caule erecto multifloro, pedunculis sulcatis, calycibus retroflexis, radice bulbosa.—*Willd. sp. pl.* 2. *p.* 1324.

bulbosus.

Icon. *Fl. dan.* 551. *Engl. bot.* 515.

In meadows and grass plots, common. $\mathcal{U}$. May—Aug. *v. v.*

13. *R. hirsutus*; foliis ternatis inciso-lobatis, caule erecto

Philonotis.

multifloro, pedunculis sulcatis, calycibus retroflexis acuminatis, seminibus tuberculatis, radice fibrosa.—*Willd. sp. pl.* 2. p. 1324.

R. hirsutus. *Curt. lond.* 2. t. 40. *Engl. bot.* 1504.

In old meadows and low wet fields: New England to Pennsylvania. ♀. June—Oct. *v. v.* Resembles the foregoing one.

repens. 14. *R. hirsutus*; foliis compositis: ternatis trifidis incisis, sarmentis repentibus, pedunculis sulcatis, calycibus patulis.—*Willd. sp. pl.* 2. p. 1325.

Icon. *Fl. dan.* 795. *Engl. bot.* 516.

In shady wet woods, particularly in the mountains: Pennsylvania to Virginia. ♀. July, Aug. *v. v.* Flowers deep yellow.

acris. 15. *R. adpresso-pilosus*; foliis tripartito-multifidis, summis linearibus, pedunculis teretibus, calycibus patulis.—*Willd. sp. pl.* 2. p. 1326.

Icon. *Engl. bot.* 652.

In wet meadows, in the western parts of New York and Canada. ♀. May—Aug. *v. v.*

lanuginosus. 16. *R. hirsutus*; foliis trifidis lobatis dentatis holosericeis, pedunculis elongatis teretibus, calycibus patulis.—*Willd. sp. pl.* 2. p. 1327.

Icon. *Fl. dan.* 397.

In old fields and meadows: Pennsylvania to Carolina. ♀. June—Oct. *v. v.*

tomentosus. 17. *R. villosissimus*, humilis; caule repente 1-2-floro, foliis tomentosis trilobatis, calycibus hispidis subreflexis.—*Lam. encycl.* 6. p. 127.

In Carolina. *Bosc.* ♀. +. Flowers yellowish-white.

marylandicus. 18. *R. pubescens*; caule simplici subnudo, foliis radicalibus ternatis, foliolis trilobatis, lobis acutis incisis, calycibus reflexis. *Lam. encycl.* 6. p. 126.

In shady woods: Pennsylvania to Virginia. ♀. May—July. *v. v.* Flowers pale yellow.

recurvatus. 19. *R. pubescens*; foliis trilobis, lobis basi cuneiformibus, apice incisis acutis, caule multifloro, corolla calycibusque recurvis, petalis linearibus.—*Lam. encycl.* 6. p. 125.

In shady woods: New York to Carolina. ♀. June—Aug. *v. v.* Flowers small; petals almost white.

septentrionalis. 20. *R. glabriusculus*; foliis membranaceis glabris ternatis, foliolis subtrilobatis incisis acutis, caule petiolisque

basi hirsutis, pedunculis subbifloris, calycibus reflexis.
Lam. encycl. 6. p. 125.

In North America. *Lamarck.* 2. +. Flowers pale yellow.

21. *R. hirsutissimus*, erectus; foliis ternatis, foliolis acute lobatis, caulibus infra primum pedunculum nudis paucifloris, calyce appresso. *Mich. fl. amer.* 1. p. 321. *hispidus.*
 In wet fields and on the banks of ditches: Virginia and Carolina. 2. June—Aug. v. v. Flowers small, pale yellow.

22. *R. foliis submersis capillaceis, emersis peltatis.* *Willd.* *aquatilis.*
sp. pl. 2. p. 1332.

R. heterophyllus. *Roth fl. germ.* 1. p. 240.

Icon. *Engl. bot.* 101. *Fl. dan.* 376.

In ponds and slow-flowing rivulets: Canada to New York. 2. June, July. v. v. Flowers white.

23. *R. foliis omnibus dichotomo-capillaceis, caule natante.* *fluviatilis.*
Willd. sp. pl. 2. p. 1333.

Icon. *Fl. dan.* 376.

In tranquil rivers: Pennsylvania to Carolina. 2. June—Aug. v. v. Flowers white.

*** *Seminibus aculeatis.*

24. *R. glabellus, diffusus; foliis simplicibus subrotundis trilobatis, calycibus longitudine corollarum.*—*Willd. sp. muricatus.*
pl. 2. p. 1329.

Icon. *Lam. illustr. t.* 498. f. 2. *Alp. exot.* 262.

In old fields: Virginia and Carolina. ☉. June, July. v. v. Flowers yellow.

25. *R. glabellus, simplex; foliis simplicibus subrotundis trilobatis, petalis calyce duplo longioribus.*—*Vent. hort. echinatus.*
cels 73.

Near Charlestown, South Carolina. *Bosc.* +. Flowers yellow, more than twice the size of the preceding one.

466. SAGITTARIA. *Gen. pl.* 1441.

1. *S. foliis lanceolatis acutis sagittatis, lobis lanceolatis acutis rectis, scapo simplici, floribus monoicis, bracteis calycibusque lanceolatis acutis.*—*Willd. sp. pl.* 4. *sagittifolia.*
p. 408. *β. minor.*

Icon *Fl. dan.* 172.

In small ponds and ditches: Pennsylvania to Carolina.

2. July, Aug. *v. v.* Leaves not above two inches long; flowers, as in all the following species, white.

latifolia.

2. *S. foliis ovatis acutiusculis sagittatis, lobis ovatis tenuissime acuminatis rectis, scapo simplici, floribus monoicis, bracteis subrotundis obtusis.*—*Willd. sp. pl.* 4. p. 409.

S. sagittifolia. Mich. fl. amer. 2. p. 189.

major.

- β. *S. foliis amplis abrupte acutis, scapo subramoso, floribus dioicis.*

In ponds and ditches: Canada to Carolina. 2. June—Aug. *v. v.* Leaves large and broad.

obtusa.

3. *S. foliis dilatato-ovatis rotundato-obtusis mucronatis sagittatis, lobis approximatis oblongis oblique-acuminatis rectis, scapo simplici floribus dioicis, bracteis ovatis acutis.*—*Willd. sp. pl.* 4. p. 409.

In ditches and shallow ponds: Pennsylvania to Virginia. 2. June—Sept. *v. v.* Leaves the size of *Calla palustris*.

hastata.

4. *S. foliis oblongo-lanceolatis sensim-acutis sagittatis, lobis patentibus lanceolatis longissime acuminatis, scapo simplici, floribus dioicis, bracteis calycibusque subrotundis obtusis.*

In old ditches: Pennsylvania. 2. July, Aug. *v. v.* Leaves the size of *S. sagittifolia*; the lobes very spreading.

gracilis.

5. *S. foliis linearibus obtusiusculis 3-nervibus sagittatis, lobis patentibus linearibus elongatis sensim tenuissime acuminatis, scapo simplici paucifloro, floribus dioicis, bracteis brevibus suborbiculatis.*

In bogs and ditches: Pennsylvania to Virginia, particularly on the mountains. 2. July, Aug. *v. v.* Leaves very slender, about three inches long, measured from the beginning of the petiole.

heterophylla.

6. *S. folis simplicibus linearibus lanceolatisque utrinque acutis, seu ellipticis acutis basi obtusis sagittatis, lobis divaricatis linearibus, scapo simplici paucifloro, floribus monoicis, femineis subsessilibus, bracteis lato-ovatis acuminatis.*

In small ponds and ditches: Pennsylvania and New Jersey. 2. June—Aug. *v. v.* Leaves about two inches and a half long; this species is easily distinguished by the female flowers being almost sessile.

7. *S. foliis lato-lanceolatis inferne angustatis, scapo subramoso, seminibus planis falcatis rostratis.* *falcata.*
S. lancifolia. Mich fl. amer. 2 p. 189.
 In ponds: Carolina. ♀. July Aug v. s. in *Herb. Lyon.*
8. *S. foliis angusto-lanceolatis inferne carinatis rigidis utrinque acutissimis, scapo ramoso, floribus monoicis.* *rigida.*
 In still and deep waters of Oswego river near the great falls, New York. ♀ July, Aug v v. This species grows in a depth of more than seven feet water; the petioles are strong and stiff; the flowers very numerous.
9. *S. foliis lineari-lanceolatis acutis inferne angustatis, scapo simplici multifloro, floribus dioicis, bracteis calycibusque rotundatis obtusis.* *simplex.*
 In small ponds: New Jersey. ♀. July, Aug v. v. Leaves about six inches long and half an inch wide; flowers from twelve to eighteen in a scape.
10. *S. foliis linearibus longissimis 3 nervibus, scapo simplici paucifloro, floribus monoicis, bracteis oblongis obtusis.* *graminea.*
S. graminea: foliis lanceolato-linearibus, capitulis pistillorum pusillis Mich fl. amer 2. p. 190?
 In Carolina. *Lyon.* Canada. *Michaux.* ♀. July, Aug. v. s. in *Herb. Lyon.*
11. *S. foliis subulatis basi vaginantibus dorso convexis, scapo simplici paucifloro, floribus monoicis, bracteis dilatatis acuminatis.* *acutifolia.*
 In small rivulets and ditches, near Philadelphia. ♀. July, Aug. v. v. A small species; leaves sometimes with a dilated point, representing a leaf.
12. *S. foliis natantibus elliptico-lanceolatis obtusis 3-nervibus basi attenuatis, infimis subcordatis, scapo simplici paucifloro, pedunculis inferioribus elongatis.—Mich. fl. amer. 2. p 190.* *natans.*
 In rivulets of Lower Carolina. ♀. July, Aug. v. s. in *Herb. Lyon.* Flowers small; leaves about an inch and a half long.

467. CYAMUS. *Salisb. in annals of bot. 2. p. 75.*

Nelumbium. *Willd. sp. pl. 2. p.*

flavicomus.

1. *C. foliis peltatis orbiculatis integerrimis, corolla polypetala, antheris superne linearibus.*—*Salisb. l. c.*

Nelumbium luteum. Willd. sp. pl. 2. p. 1259.

Nymphæa Nelumbo β. Sp. pl. 730.

Icon. Bartr. ic. ined. in mus. Banks.

In ponds and lakes of Carolina and Virginia; also near Philadelphia, in ditches and ponds of Brobston's meadows. *℥. July. v. v.* Flowers large, yellow, resembling a double tulip. The seeds are very agreeable to eat, and eagerly sought for by children and Indians. By the latter it is supposed they were introduced to those ponds near Philadelphia, as there is no other instance known to have been found so far north. Walter mentions his *Nelumbo* to have white flowers; this variety I have never seen.

pentapetalus.

2. *C. foliis peltatis orbiculatis integerrimis, calyce pentaphyllo, corolla pentapetala.*

Nelumbium pentapetalum. Willd. sp. pl. 2. p. 1259.

Nymphæa pentapetala. Walt. fl. car. 155.

In North and South Carolina. *℥. July. v. s.* Flowers large, white. A specimen seen in the collection of a gentleman in Carolina ascertains the existence of this formerly doubtful plant; but unfortunately I took no notes at that time, being in expectation of seeing the living plant.

reniformis.

3. *C. foliis reniformibus, corolla polypetala.*

Nelumbium reniforme. Willd. sp. pl. 2. p. 1260.

Nymphæa reniformis. Walt. fl. car. 155.

In Carolina. *Walter. ℥. +.* This is a doubtful species, and probably a plant belonging to a different genus.

468. POTHOS. *Gen. pl. 210.*

fœtida.

1. *P. acaulis; foliis ovatis cordatis, spadice subgloboso.*—*Mich. fl. amer. 2. p. 186.*

Dracontium fœtidum. Willd. sp. pl. 2. p. 288.

Icon. Bot. mag. 836. Catesb. car. 2. t. 71.

In low grounds, on the side of shady rivulets and springs: Canada to Virginia. *℥. Feb.—April. v. v.* Leaves large; flowers several, almost sessile on the ground,

of a singular shape, spotted yellow and brown; the whole plant very foetid, from which it has the name of *Skunk-weed* or *Skunk-cabbage*. It has four distinct, truncated, fleshy petals, and four stamina to each germ.

469. CALLA. *Gen. pl.* 1388.

1. *C. foliis subrotundo-cordatis acutis, spatha ovata cuspidata.*—*Willd. sp. pl.* 2. p. 290. *palustris.*

Icon. *Fl. dan.* 422.

In sphagnous swamps, on the mountains and near rivulets: Canada to Pennsylvania. ♀. July, Aug. v. v. Flowers white.

470. ARUM. *Gen. pl.* 1387.

1. *A. acaule; foliis hastato-cordatis acutis, lobis obtusis, spatha elongata incurva, spadice superne longius masculiflora.*—*Willd. sp. pl.* 4. p. 484. *virginicum.*

Calla virginica. Mich. fl. amer. 2. p. 187.

In overflowed places on the banks of rivers, among Scirpi and Junci. ♀. June, July. v. v. Spatha long, involute, green.

2. *A. acaule; foliis subhastato-sagittatis, lobis oblongis, spatha cucullata superne ovali, spadice longo a medio ad apicem masculiflora.* *sagittifolium.*

Calla sagittifolia. Mich. fl. amer. 2. p. 187.

Caladium sagittifolium. Willd. sp. pl. 4. p. 489?

On the banks of rivers and old swamps: Pennsylvania to Carolina. ♀. July, Aug. v. v.

3. *A. acaule; foliis ternatis, foliolis ovatis acuminatis, spadice cylindrico spatha sessili ovata acuminata horizontaliter patenti altiore.*—*Willd. sp. pl.* 4. p. 481. *atrorubens.*

Icon. *Pluk. alm. t.* 148. f. 6. *bona.*

In swamps of Virginia and Maryland. ♀. May, June. v. v. Spatha dark brown, of a disagreeable smell.

4. *A. subcaulescens; foliis ternatis, foliolis ovatis acuminatis, spadice clavato spatha ovata acuminata plana pedunculata dimidio brevior, floribus monoicis.*—*Willd. sp. pl.* 4. p. 480. *triphyllum.*

α. *A. spatha virescente.*

Icon. *Pluk. amalth. t.* 376. f. 3. *virens.*

β. *A. spatha atropurpurea.*

Icon. *Pluk. alm. t.* 77. f. 5. *atropurpureum.*

In shady wet woods: Canada to Carolina. ♀. June,

July. *v. v.* Flowers handsomely green and yellow, or green and purple striped. Roots known as a medicine among the natives, particularly in colics: they are generally called *Indian Turnips*.

Dracontium. 5. *A. acaule*; foliis pedatis, foliolis lanceolato-oblongis integerrimis, spadice subulato spatha oblonga convoluta longiore.—*Willd. sp. pl.* 4. *p.* 478.

Icon. *Pluk. alm. t.* 271. *f.* 2.

In shady woods: Virginia to Florida. *fl.* June, July, *v. v.*

XIII. DIDYNAMIA.

I. GYMNOSPERMIA.

* *Calyces subquinquefidi.*

471. AJUGA. *Cor.* labium superius minimum bidentatum. *Stamina* labio superiore longiora.
472. TEUCRIUM. *Cor.* labium superius nullum, sed fissura ejus loco in qua *Stamina* jacent.
473. MENTHA. *Cor.* subæqualis, 4-fida: lacinia latiore emarginata. *Stam.* erecta, distantia.
474. ISANTHUS. *Cal.* campanulatus. *Cor.* 5-partita: tubo recto, angusto: laciniis ovatis æqualibus. *Stam.* subæqualia. *Stigm.* linearia, recurva.
475. CUNILA. *Cal.* cylindricus, 5-dentatus, fauce villosus. *Cor.* ringens: labio superiore erecto, plano, emarginato. *Stam.* 2. sterilia.
476. HYSSOPUS. *Cor.* labium inferius tripartitum, lacinula intermedia crenata. *Stam.* recta, distantia.
477. NEPETA. *Cal.* aridus, striatus. *Cor.* tubo longiusculo: labio inferioris lacinula intermedia crenata; faux margine reflexo. *Stam.* approximata.
478. LAMIUM. *Cor.* labium superius integrum, fornicatum: labium inferius bilobum: faux utrinque margine dentata.
479. GALEOPSIS. *Cor.* labium superius subcrenatum, fornicatum: labium inferius supra 2-dentatum.
480. STACHYS. *Cor.* labium superius fornicatum: labium inferius lateralibus reflexum: lacinia intermedia majore emarginata. *Stam.* deflorata versus latera reflexa.
481. LEONURUS. *Cal.* 5-gonus, 5-dentatus. *Cor.* labium superius villosum, planum, integrum: inferius tripartitum, lacinia media indivisa.
482. GLECHOMA. *Cal.* 5-fidus. *Antherarum* singulum par in formam crucis connivens.

483. MARRUBIUM. *Cal.* hypocrateriformis, rigidus, 10-striatus. *Cor.* labium superius bifidum, lineare, rectum.
484. HYPTIS. *Cal.* 5-dentatus, crescens. *Cor.* ringens: labium superius bifidum, inferius tripartitum, lacinia media sacculiformi. *Stam.* tubi ventri inserta, declinata.
485. PYCNANTHEMUM. *Involucrum* multibracteatum, capitulis subjectum. *Cal.* tubulatus, striatus. *Cor.* labium superius subintegrum, inferius trifidum. *Stam.* subæqualia.

** *Calyces bilabiati.*

486. CLINOPODIUM. *Involucrum* multisetum, verticillo subjectum. *Cor.* labium superius planum, obcordatum, rectum.
487. ORIGANUM. *Strobilus* tetragonus, spicatus, calyces colligens. *Cor.* labium superius erectum, planum: inferius tripartitum: lacinis æqualibus.
488. DRACOCEPHALUM. *Cor.* faux inflata, labium superius concavum.
489. PRUNELLA. *Cor.* labium superius dilatatum. *Filam.* bifurca: altero apice antherifera. *Stigm.* bifidum.
490. SCUTELLARIA. *Cal.* ore integro, post florescentiam clauso, operculato. *Cor.* tubus elongatus.
491. THYMUS. *Cal.* campanulatus, faux villis clausa. *Cor.* labium superius planum, emarginatum.
492. CALAMINTHA. *Cal.* defloratus villis clausus. *Cor.* fauce inflata, labio superiore emarginato, inferiore tripartito: lacinia intermedia integra, subemarginata aut crenulata.
493. HEDEOMA. *Cal.* basi gibbus. *Cor.* ringens. *Stam.* 2. sterilia.
494. TRICHOSTEMA. *Cor.* labium superius falcatum. *Stam.* longissima.

II. ANGIOSPERMIA.

* *Calyces quinquefidi.*

495. LINNÆA. *Cal.* superus, duplex: fructus 2-phyllus; floris 5-partitus. *Cor.* campanulata. *Bacca* sicca, 3-locularis.
496. PHRYMA. *Cal.* cylindricus, supra longior, trifidus, infra bidentatus. *Cor.* labium superius emarginatum, inferius majus. *Sem.* unicum.

497. VERBENA. *Cal.* 5-fidus. *Cor.* infundibuliformis, tubo incurvo, limbo inæquali, 5-fido. *Sem.* 2—4.
498. ZAPANIA. *Flor.* capitati. *Cal.* 5-dentatus. *Cor.* 5-fida. *Stam.* 4. fertilia. *Stigm.* peltato-capitatum, obliquum. *Fructus* tectus utricularis, evanescens, nectens semina 2.
499. CAPRARIA. *Cal.* 5-partitus. *Cor.* campanulata, 5-fida, acuta. *Caps.* 2-valvis, 2-locularis, polysperma.
500. HERPESTIS. *Cal.* inæqualis, basi 2-bracteatus. *Cor.* tubulosa, subbilabiata. *Stam.* inclusa. *Caps.* 2-valvis, 2-locularis, dissepimento valvis parallelo.
501. LINDERNIA. *Cal.* 5-partitus, æqualis. *Cor.* ringens, labio superiore brevissimo, inferiore 3-fido, basi bicarinata. *Anther.* per paria cohærentes. *Stigm.* bilamellatum. *Caps.* 2-locularis, 2-valvis, dissepimento valvis parallelo.
502. SCROPHULARIA. *Cal.* 5-fidus. *Cor.* subglobosa, resupinata. *Caps.* 2-locularis.
503. BIGNONIA. *Cal.* 5-fidus, cyathiformis. *Cor.* faucæ campanulata, 5-fida, subtus ventricosa. *Siliqua* 2-locularis. *Sem.* membranaceo-alata.
504. RUELLIA. *Cal.* 5-partitus. *Cor.* subcampanulata, limbo 5-fido. *Stam.* conjugata. *Caps.* utrinque attenuata, dentibus elastice dehiscens. *Sem.* pauca.
505. BUCHNERA. *Cal.* 5-dentatus. *Cor.* limbus 5-fidus, æqualis: lobis cordatis. *Caps.* 2-locularis.
506. ANTIRRHINUM. *Cal.* 5-phyllus. *Cor.* calcarata, ringens: rictu clauso palato prominente. *Caps.* 2-locularis, 2-valvis.
507. GERARDIA. *Cal.* 5-fidus. *Cor.* 2-labiata: labio inferiore 3-partito: lobis emarginatis: medio bipartito. *Caps.* 2-locularis, dehiscens.
508. PEDICULARIS. *Cal.* 5-fidus. *Cor.* ringens. *Caps.* 2-locularis, mucronata, obliqua. *Sem.* tunicata.
509. MIMULUS. *Cal.* prismaticus, 5-dentatus. *Cor.* ringens: labio superiore lateribus replicato. *Stigm.* crassum. *Caps.* 2-locularis, polysperma.
510. CHELONE. *Cal.* 5-partitus, 3-bracteatus. *Cor.* ringens, ventricosa. *Filam.* quintum sterile, cæteris brevius. *Caps.* 2-locularis, 2-valvis. *Sem.* plurium, margine membranacea.
511. PENTSTEMON. *Cal.* 5-phyllus. *Cor.* 2-labiata, ventricosa. *Filam.* quintum sterile, cæteris longius, superne barbatum. *Caps.* compressa, 2-locularis, 2-valvis. *Sem.* numerosa, subglobosa.

512. MARTYNIA. *Cal.* 5-fidus. *Cor.* ringens. *Caps.* lignosa, corticata, rostro hamato, 4-locularis, 2-valvis.

** *Calyces quadrifidi.*

513. SCHWALBEA. *Cal.* ventricosus-tubulosus, 4-fidus : lacinia superiore minima, infima maxima, emarginata. *Cor.* ringens. *Caps.* 2-locularis, 2-valvis : dissepimento duplicato. *Sem.* paleacea.
514. RHINANTHUS. *Cal.* ventricosus, 4-fidus. *Cor.* ringens : labio superiore compresso. *Caps.* 2-locularis, compressa, obtusa.
515. BARTSIA. *Cal.* 2-lobus, emarginatus, coloratus. *Cor.* minus ipso calyce : labio superiore longiore. *Caps.* 2-locularis. *Sem.* angulata.
516. EUPHRASIA. *Cal.* cylindricus, 4-fidus. *Cor.* bilabiata : labium superius 2-fidum, inferius 3-lobum : lacinii bifidis. *Anth.* interiores lobis spinosis.
517. MELAMPYRUM. *Cal.* 4-fidus. *Cor.* labium superius compressum, margine replicato. *Caps.* 2-locularis, obliqua, hinc dehiscens. *Sem.* 2. gibba.

*** *Calyces bifidi.*

518. OBOLARIA. *Cor.* campanulata, 4-fida. *Stam.* ex divisuris corollæ. *Caps.* 1-locularis, 2-valvis, polysperma.
519. OROBANCHE. *Cor.* ringens. *Caps.* 1-locularis, 2-valvis, polysperma. *Glandula* sub basi germinis.

I. GYMNOSPERMIA.

471. AJUGA. *Gen. pl.* 959.

Chamæpithys.

1. A. foliis trifidis, floribus axillaribus solitariis folio brevioribus, caule diffuso. *Willd. sp. pl.* 3. p. 10.
Teucrium Chamæpithys. Sp. pl. 787.
Icon. Fl. dan. 733. *Rivin. t.* 24.
 In sandy fields of Virginia. *Gronov. ☉.* June, July.
v. s. in Herb. Gronov. Flowers pale yellow.

472. TEUCRIUM. *Gen. pl.* 960.

1. *T. cano-hirsutissimum*; foliis ovato-lanceolatis serratis, omnibus petiolatis, caule erecto, spicis verticillatis confertis, bracteis calyce duplo longioribus.—*Willd. sp. pl.* 3. p. 22. *canadense.*

In low grounds, on the borders of ponds and lakes: Canada to New York. *℥*. July, Aug. *v. v.* Flowers purple.

2. *T. pubescens*; foliis ovato-oblongis serratis, superioribus subsessilibus, caule erecto, spicis verticillatis confertis, bracteis longitudine calycis.—*Willd. sp. pl.* 3. p. 22. *virginicum.*

Icon. *Schkuhr handb.* 160.

In low grounds and bogs: New York to Carolina. *℥*. June—Aug. *v. v.* Resembles the foregoing species very much.

473. MENTHA. *Gen. pl.* 967.

1. *M. floribus verticillatis, foliis lanceolatis serratis petiolatis pilosis, staminibus corollam æquantibus.* *Willd. sp. pl.* 3. p. 82. *canadensis.*

In Canada. *Kalm.* *℥*. +.

2. *M. assurgens, pubescens*; foliis petiolatis ovali-lanceolatis utrinque acutissimis, floribus verticillatis, staminibus exertis.—*Mich. fl. amer.* 2. p. 2. *lancealis.*

On the banks of rivers and near springs: Canada to Pennsylvania *℥*. July, Aug. *v. v.* Flowers pale purple.

3. *M. erecta, glabriuscula*; foliis lanceolato-ovatis subsessilibus, spica gracili, verticillis minimis interrupta, staminibus non exertis.—*Mich. fl. amer.* 2. p. 2. *tenuis.*

M. viridis. *Walt. fl. car.* 161.

In wet places, near springs: Pennsylvania to Georgia. *℥*. June—Aug. *v. v.* Flowers white.

474. ISANTHUS. *Mich. fl. amer.* 2. p. 3.

1. *I. viscido-pubescens*; foliis ovali-lanceolatis utrinque acutis 3-nerviis, pedunculis 1-2-floris. *Mich. fl. amer.* 2. p. 4. *cæruleus.*

Icon. *Mich. fl. amer.* 2. t. 30.

On dry hills, in lime-stone soil: Virginia and Kentucky.

○. July, Aug. *v. v.* Flowers pale blue.

475. CUNILA. *Gen. pl.* 46.*mariana.*

1. *C. foliis ovatis serratis sessilibus, corymbis terminalibus dichotomis.*—*Willd. sp. pl.* 1. p. 122.

Icon. *Pluk. mant. t.* 344. *f.* 1.

On dry shady hills: New York to Carolina. *℥.* June, July. *v. v.* Flowers red. The whole herb has an aromatic scent, and is used as tea in severe colds and other complaints, under the name of *Dittany*.

476. HYSSOPUS. *Gen. pl.* 963.*vepetoides.*

1. *H. spicis verticillatis cylindricis, stylis corolla brevioribus, foliis subcordatis ovatis acuminatis acute dentatis.*—*Willd. sp. pl.* 3. p. 48.

Icon. *Jacq. hort.* 1. *t.* 69. *Pluk. alm. t.* 150. *f.* 3.

In fertile shady woods, along hedges: Pennsylvania to Virginia. *℥.* July, Aug. *v. v.* From three to five feet high; flowers in long close spikes, yellowish.

scrophulari-folius.

2. *H. spicis verticillatis cylindricis, stylis corolla longioribus, foliis cordatis ovatis acuminatis obtuse dentatis.*—*Willd. sp. pl.* 3. p. 48.

Agastache. *Gronov. fl. virg.* 88.

Icon. *Herm. parad. t.* 106.

In wet copses and on the banks of rivers: Pennsylvania to Virginia; rare. *℥.* July, Aug. *v. v.* Seldom above two feet high; flowers purple.

477. NEPETA. *Gen. pl.* 964.*Cataria.*

1. *N. floribus spicatis, verticillis subpedicellatis, foliis petiolatis cordatis dentato-serratis.* *Willd. sp. pl.* 3. p. 49.

Icon. *Fl. dan.* 580. *Schkuhr handb.* 157.

On road sides and in cultivated grounds: frequent. *℥.* July, Aug. *v. v.* Flowers white. Common *Catnep*, so well known as a domestic medicine, has probably been introduced from Europe.

478. LAMIUM. *Gen. pl.* 971.*amplexicaule.*

1. *L. foliis floralibus sessilibus amplexicaulibus obtusis.* *Willd. sp. pl.* 3. p. 90.

Pollichia amplexicaulis. *Roth germ.* 1. p. 254.

Icon. *Fl. dan.* 752. *Schkuhr handb.* 159.

In cultivated grounds, common ; probably introduced.

☉. May—Aug. *v. v.* Flowers purple.

2. *L. caule hispido, foliis longe petiolatis lato-cordatis pubescentibus, axillis unifloris.*—*Mich. fl. amer. 2. p. 4.* *hispidulum.*

In shady woods of Tennessee. *Michaux. +.* Flowers large, white.

479. *GALEOPSIS. Gen. pl. 972.*

1. *G. internodiis caulinis superne incrassatis, verticillis summis subcontiguis, calycibus pungentibus, corollis calyce parum longioribus, caule hirsuto.* *Willd. sp. pl. 3. p. 92.*

Icon. *Engl. bot. 207.*

On road sides, in the western parts of Pennsylvania. ☉. July, Aug. *v. v.* Flowers white, with purple spots.

Tetrahit.

480. *STACHYS. Gen. pl. 974.*

1. *S. glabriuscula, gracilis, erecta ; foliis sessilibus linearilanceolatis rariter subdentatis, verticillis subquadrifloris.*—*Mich. fl. amer. 2. p. 4.*

S. palustris. Walt. fl. car. 162.

In Carolina. *Michaux. +.*

hyssopifolia.

2. *S. caulibus erectis, retrorsum hispidissimis, foliis subpetiolatis lanceolatis acute serratis glaberrimis, verticillis subsexfloris, calycibus divaricato-spinescentibus.*—*Mich. fl. amer. 2. p. 5.*

S. tenuifolia. Willd. sp. pl. 3. p. 100.

S. arvensis. Walt. fl. car. 162.

In low fields and on the banks of rivers : New York to Virginia. 4. June—Aug. *v. v.* Resembles *S. palustris* ; flowers purple.

aspera.

3. *S. caule foliisque hispido-pilosis ; foliis petiolatis ovato-oblongis obtuse-serratis, verticillis subsexfloris, calycibus glabriusculis.*

Galeopsis floris galea rubente, &c. Gron. fl. virg. n. 271.

In old fields and low pastures : Virginia to Carolina. 4. July. *v. v.* Flowers purple. Gronovius's synonym has been placed under *S. annua*, from which it is widely different, as his specimen in the Banksian Museum sufficiently demonstrates.

hispida.

4. *S. erecta, pubescens ; foliis cordato-ovatis dentatis, supra glabris subtus albicantibus tomentosis, verticillis subsexfloris.*

Feniculum.

On the banks of the Missouri. ☉. July. *v. s.* Flowers blue. The whole of this plant has a scent extremely like that of fennel.

481. LEONURUS. *Gen. pl.* 977.*Cardiaca.*

1. *L. foliis cuneiformi-ovatis trilobis dentatis, corollis calyce pungente majoribus, lacinia media labii inferioris acuta.* *Willd. sp. pl.* 3. p. 114.

Icon. *Fl. dan.* 727. *Engl. bot.* 286.

In old fields and hedges: Pennsylvania to Virginia; probably introduced from Europe. ♀. July, Aug. *v. v.* Flowers white, mixed with red.

482. GLECHOMA. *Gen. pl.* 970.*hederacea.*

1. *G. foliis reniformibus crenatis.* *Willd. sp. pl.* 3. p. 85.

Icon. *Fl. dan.* 789. *Curt lond.* 2. t. 44.

In orchards and on grassy hills: Pennsylvania to Virginia. ♀. May, June. *v. v.* Flowers handsome, blue.

483. MARRUBIUM. *Gen. pl.* 976.*vulgare.*

1. *M. foliis subrotundo-ovatis dentatis rugoso-venosis, calycibus dentibus setaceis uncinatis.* *Willd. sp. pl.* 3. p. 111.

Icon. *Fl. dan.* 1036. *Engl. bot.* 410.

On road sides; frequent. ♀. July, Aug. *v. v.* Flowers small, white.

484. HYPTIS. *Gen. pl.* 969.*capitata.*

1. *H. capitulis oppositis, pedunculo internodiis longitudine, bracteis lanceolatis calyce frugifero brevioribus, foliis oblongis utrinque attenuatis inæqualiter serratis.*—*Willd. sp. pl.* 3. p. 84. *Poiteau in annal. du mus.* 7. p. 464.

Clinopodium capitatum. *Swartz. prodr.* 88.

Icon. *Jacq. ic. rar. t.* 114. *Annal. du mus.* 7. t. 27. f. 1.

In Lower Carolina. *Michaux.* ♀. July, Aug. *v. v.* Flowers white.

radiata.

2. *H. capitulis oppositis, pedunculo internodiis longitudine, bracteis lanceolatis calyce frugifero longioribus, foliis oblongis serratis.*—*Willd. sp. pl.* 3. p. 84. *Poiteau in annal. du mus.* 7. p. 466.

Clinopodium rugosum. *Sp. pl.* 822.

Icon. *Dill. elth. t.* 75. *f.* 86. *Annal. du mus.* 7. *t.* 27. *f.* 2

In Lower Carolina. *℥.* +.

485. PYCNANTHEMUM. *Mich. fl. amer.* 2. *p.* 7.

Brachystemum. *Mich. fl. amer.* 2. *p.* 5.

* *Staminibus exertis.*

1. *P. foliis oblongo-ovatis acutis subserratis cano-tomentosis, capitulis compositis, lateralibus pedunculatis, bracteis setaceis.*—*Mich. fl. amer.* 2. *p.* 7. *incanum.*
Clinopodium incanum. *Willd. sp. pl.* 3. *p.* 132.
 Icon. *Dill. elth. t.* 74. *f.* 85. *Pluk. mant. t.* 344. *f.* 7.
 In low fields and copses : New York to Carolina. *℥.*
 July—Oct. *v. v.* About three feet high ; flowers white, tinged with red.
2. *P. foliis lanceolato-ovatis subserratis brevissime petiolatis subcandicantibus, capitulis sessilibus, bracteis aristatis.* *aristatum.*
 —*Mich. fl. amer.* 2. *p.* 8.
Nepeta virginica. *Willd. sp. pl.* 3. *p.* 56.
 Icon. *Mich. fl. amer.* 2. *t.* 33. *Pluk. alm. t.* 85. *f.* 2.
 In dry woods, in lime-stone soil : Maryland to Carolina.
℥. July, Aug. *v. v.* Flowers white, very small.
3. *P. foliis ovali-lanceolatis serratis subsessilibus, capitulo sessili, calycibus approximatis erectis breviter dentatis.* *montanum.*
Mich. fl. amer. 2. *p.* 8.
 On high mountains of Carolina. *Michaux.* *℥.* +.
 Stem and leaves tinged with purple.
4. *P. hirsutum ; foliis abrupte petiolatis subcordato-ovalibus serratis, bracteis magnis coloratis, bracteolis ciliatis, calycibus summitate barbatis.*—*Mich. fl. amer.* 2. *p.* 8. *Monardella;*
Origanum incanum. *Walt. fl. car.* 165.
 Icon. *Mich. fl. amer.* 2. *t.* 34.
 On the mountains of Virginia and Carolina. *℥.* June
 —Aug. *v. v.* Flowers small, pale red.
5. *P. caule stricto ramosissimo asperiusculo, foliis linearibus 3-nervibus integerrimis, capitulis terminalibus fasciculato-corymbosis.* *linifolium.*
Brachystemum virginicum. *Mich. fl. amer.* 2. *p.* 6.
Brachystemum linitolium. *Willd. enum.* 623.
Thymus virginicus. *Willd. sp. pl.* 3. *p.* 145.

Satureja virginiana. *Sp. pl.* 2. p. 793.

Origanum flexuosum. *Walt. fl. car.* 165.

Icon. Herm. parad. t. 218. *Pluk. alm. t.* 54. f. 2.

In dry swamps and mountain meadows: New England to Carolina. *℥*. July, Aug. *v. v.* Flowers very small, entirely white. This and the following species approach so near to the genus *Westringia*, that they almost ought to be added to that genus.

** *Staminibus inclusis*.

lanceolatum. 6. *P.* caule stricto ramosissimo asperiusculo, foliis lineari-lanceolatis venosis integerrimis, capitulis terminalibus fasciculato-corymbosis.

Brachystemum lanceolatum. *Willd. enum.* 623.

In dry swamps and on the banks of rivers: Pennsylvania to Virginia. *℥*. July, Aug. *v. v.* Resembles the foregoing species very much; flowers white; the lower lip of the corolla has purple dots.

muticum. 7. *P.* foliis ovato-lanceolatis subdentatis glabriusculis, capitulis terminalibus, bracteis lanceolatis acutiusculis.—*Pers. syn.* 2. p. 128.

Brachystemum muticum. *Mich. fl. amer.* 2. p. 6.

Icon. Mich. fl. amer. 2. t. 32.

In Upper Carolina. *Michaux.* *℥*. +.

verticillatum. 8. *P.* foliis ovato-lanceolatis integerrimis, verticillis sessilibus compactis, bracteis acuminatis.—*Pers. syn.* 2. p. 128.

Brachystemum verticillatum. *Mich. fl. amer.* 2. p. 6.

Origanum clinopodioides. *Walt. fl. car.* 165.

Icon. Mich. fl. amer. 2. t. 31.

In the mountains: Pennsylvania to Carolina. *℥*. July, Aug. *v. v.*

486. CLINOPODIUM. *Gen. pl.* 980.

vulgare. 1. *C.* capitulis verticillatis, bracteis setaceis hispidis, foliis superne pilosis remote dentatis, caule subsimplici. *Willd. sp. pl.* 3. p. 131.

Icon. Fl. dan. 930. *Engl. bot.* 1401.

In dry stony fields and woods: Canada to Virginia. *℥*. July, Aug. Flowers pale purple or rose-coloured.

487. ORIGANUM. *Gen. pl.* 981.

1. *O. spicis subrotundis paniculatis conglomeratis, bracteis calyce longioribus ovatis.* *Willd. sp. pl.* 3. p. 135. *vulgaris.*
Icon. Fl. dan. 638.
 In dry stony fields and woods: Pennsylvania to Virginia.
 ♀. July, Aug. *v. v.* Flowers pale red.

488. DRACOCEPHALUM. *Gen. pl.* 984.

1. *D. spicis brevibus tetragonis, bracteis ovatis acutis, calycis dentibus inæqualibus, foliis arcte sessilibus ovali-oblongis superne denticulatis.* *Vent. hort. cels t.* 44. *variegatum.*
cum icone.
Prasium incarnatum. Walt. fl. car. 165.
 In Lower Carolina. ♀. Aug. Sept. *v. v.* Flowers blueish-red, with white stripes, very ornamental.
2. *D. spicis elongatis confertifloris, bracteis subulatis, calycis dentibus brevibus subæqualibus, foliis lineari-lanceolatis serratis.*—*Willd. sp. pl.* 3. p. 149. *virginianum.*
Icon. Bot. mag. 467. *Rob. ic.* 207.
 In mountain meadows: Virginia and Carolina. ♀.
 July—Sept. *v. v.* Flowers reddish-purple. There is a taller variety with dark purple flowers.
3. *D. spicis elongatis remotifloris, bracteis subulatis, calycis dentibus subæqualibus, foliis obovato-lanceolatis superne denticulatis.*—*Willd. sp. pl.* 3. p. 150. *denticulatum.*
Prasium purpureum. Walt. fl. car. 166.
Icon. Bot. mag. 214.
 In the mountains of Virginia and Carolina. ♀. July—Sept. *v. v.* Resembles the former very much; it is always smaller in size, and weakly in stem.

489. PRUNELLA. *Gen. pl.* 990.

1. *P. foliis petiolatis oblongo-ovatis basi dentatis, calycis labiis inæqualibus, superiore truncato aristato, caule adscendente.*—*Willd. sp. pl.* 3. p. 176. *vulgaris.*
Icon. Fl. dan. 910. *Engl. bot.* 961.
 In fields and meadows: New England to Carolina. ♀.
 July, Aug. *v. v.* Flowers violet purple.
2. *P. foliis petiolatis ovato-lanceolatis basi dentatis, calycis labiis æqualibus, superiore truncato triaristato, caule adscendente.* *Willd. hort. berol. p.* 9. t. 9. *pensylvanica.*

P. laciniata. *Walt. fl. car.* 163.

P. sylvestris autumnalis, &c. *Gron. fl. virg.* 91.

In woods and meadows: Pennsylvania to Carolina. ♂.
July, Aug. *v. v.* Resembles the foregoing species;
the spikes are longer, and the flowers pale blue.

490. SCUTELLARIA. *Gen. pl.* 989.

- lateriflora*. 1. *S. ramosissima*, glabriuscula; foliis longissime petiolatis ovatis dentatis, caulinis subcordatis, racemis lateralibus foliosis. — *Willd. sp. pl.* 3. p. 172.
On the side of ditches and ponds: Canada to Carolina.
℥. July—Sept. *v. v.* Flowers blue, small.
- nervosa*. 2. *S. simpliciuscula*, glabra; foliis sessilibus ovatis dentatis nervosis, racemo terminali laxo folioso.
On the banks of rivulets: Virginia. ℥. July, Aug.
v. v. Flowers, as the most of this genus, blue, larger than the foregoing species.
- galericulata*. 3. *S. simpliciuscula*, glabra; foliis subsessilibus ovato-lanceolatis basi subcordatis crenatis, floribus axillaribus solitariis. — *Willd. sp. pl.* 3. p. 173.
Icon. Fl. dan. 637. *Engl. bot.* 523.
In Canada and in the salt-marshes of Onondago, New York. ℥. July, Aug. *v. v.* Flowers large, pale blue.
- angustifolia*. 4. *S. simplex*, tenuissime pubescens; foliis linearibus, floribus axillaribus oppositis, genitalibus subexsertis.
On the river Kooskoosky. *M. Lewis*. ℥. June. *v. s.*
in Herb. Lewis.
- parvula*. 5. *S. simplex*, pusilla, dense pubescens; foliis sessilibus ovatis integerrimis, omnibus conformibus, floribus axillaribus solitariis. — *Mich. fl. amer.* 2. p. 11.
In Canada and the Illinois country. *Michaux*. On banks of rivers in Virginia. *Ph.* ♂. June, July. *v. v.*
Not above two inches high; flowers small, pale blue.
- caroliniana*. 6. *S. ramosa*, glaberrima; foliis petiolatis lineari-lanceolatis acutis integerrimis, racemis laxis foliosis, calycibus obtusis. — *Lam. encycl.* 7. p. 706.
Icon. Lam. illustr. t. 515. f. 3.
In Carolina. *Fraser*. ℥. +.
- integrifolia*. 7. *S. simpliciuscula*, dense pubescens; foliis subsessilibus oblongis linearibusve obtusis integerrimis basi attenuatis, racemis laxiusculis foliosis. — *Willd. sp. pl.* 3. p. 173.

Icon. *Pluk. alm.* 441. f. 6.

- β. *S. foliis omnibus linearibus.*—*Willd. sp. pl.* 3. p. 174. *hyssopifolia.*

On dry hills, in rich soil : New York to Carolina. 2. July—Sept. *v. v.* Flowers large, handsome blue. This

species is very variable, in size and figure of leaves, simple and branched stems, &c.

8. *S. ramosa, elata, pubescens; foliis ovatis acuminatis serratis breviter petiolatis, racemis terminalibus laxiusculis plerumque paniculatis, bracteis lanceolatis brevibus.*—*Bot. rep.* 494. *serrata.*

S. integrifolia. Auctorum.

In fields and meadows : Virginia and Carolina. 2. July—Sept. *v. v.* The tallest species ; flowers large and handsome.

9. *S. simpliciuscula, pubescens; foliis remotis rhomboideo-ovatis obtusis rotundato-crenatis basi attenuatis, petiolis brevibus, racemis terminalibus laxis plerumque ramosis, bracteis lanceolatis integris.*—*Mich. fl. amer.* 2. p. 11. *pilosa.*

S. ovalifolia. Pers. syn. 2. p. 136?

S. caroliniana. Walt. fl. car. 163.

Icon. *Pluk. alm. t.* 313. f. 4.

In shady woods : Virginia and Carolina. 2. July, Aug. *v. v.* Resembles the foregoing one ; it is a smaller plant, with only a few leaves.

491. THYMUS. *Gen. pl.* 982.

1. *T. floribus capitatis, caulibus repentibus, foliis planis obtusis basi ciliatis.* *Willd. sp. pl.* 3. p. 138. *Serpyllum.*

Icon. *Engl. bot.* 1514. *Schkuhr handb.* 144.

Common *Thyme* occurs frequently in an apparently wild state, particularly on the commons near Philadelphia.

2. July, Aug. *v. v.* Flowers purple.

492. CALAMINTHA. *Tourn. inst.* 193.

1. *C. pubescens, ramosissima; foliis ovatis obtusis subseratis, verticillis pedunculatis dichotomo-corymbosis folio longioribus, villis calycinis prominentibus.* *Nepeta.*

Melissa Nepeta. Willd. sp. pl. 3. p. 147.

Thymus Nepeta. Smith fl. brit. 2. p. 642.

Icon. *Engl. bot.* 1414. *Curt. lond.* 6. t. 40.

In lime-stone soil, on dry barren hills: Virginia. $\mathcal{U}$
June, July. Flowers white, tinged with red.

- grandiflora.* 2. *C. erecto-cespitosa*; foliis rhomboideo-ovalibus superne obsolete dentatis glabriusculis, verticillis subpedunculatis subdecemfloris folio brevioribus, villis calycinis inclusis.

Thymus grandiflorus. *Bot. mag.* 997.

Thymus carolinianus. *Mich. fl. amer.* 2. p. 9.

Thymbra caroliniana. *Walt. fl. car.* 162.

On the banks of the river Savannah, in Georgia and Carolina. $\mathcal{U}$. $\frac{1}{2}$. July, Aug. *v. v.* Flowers large, pale purple.

493. HEDEOMA. *Pers. syn.* 2. p. 131.

- glabra.* 1. *H. erecta, glabra*; foliis inferioribus oblongis, superioribus lanceolatis remote serratis, pedunculis terminalibus ternis.—*Pers. syn.* 2. p. 131.

Cunila glabella. *Mich. fl. amer.* 1. p. 13.

On rocks on the river Tennessee, near Nashville. $\mathcal{U}$. +.

- pulegioides.* 2. *H. pubescens*; foliis oblongis serratis, pedunculis axillaribus verticillatis, calycis labio inferiore biseto, setis ciliatis.—*Pers. syn.* 2. p. 131.

Cunila pulegioides. *Willd. sp. pl.* 1. p. 122.

In fields and on dry hills: Canada to Carolina. ☉. June, July. *v. v.* A small plant; flowers small, pale blue.

- hispida.* 3. *H. ramosa, undique hispido-pilosa*; foliis linearibus nervosis margine revolutis integerrimis, verticillis subquadrifloris, calycibus hispidissimis laciniis subulatis.

On the banks of the Missouri. ☉. June, July. *v. s.* Not above two inches high; flowers very small.

494. TRICHOSTEMA. *Gen. pl.* 988.

- dichotoma.* 1. *T. foliis rhomboideo-lanceolatis, ramulis floriferis bifurcatis, staminibus longissimis.*—*Willd. sp. pl.* 3. p. 170.

- linearis.* β . *T. foliis linearibus.* *Walt. fl. car.* 164.

In fields and on sunny hills: Pennsylvania to Carolina. ☉. June—Aug. *v. v.* Flowers large, fine blue; the whole plant has an agreeable resinous scent.

2. *T. foliis ovato-lanceolatis, ramulis floriferis oppositis paniculatis, staminibus brevibus inclusis.*—*Willd. sp. pl.* 3. p. 170.

Icon. *Dill. elth. t.* 285. f. 369.

In Virginia. *Dillen. ☉. v. s. in Herb. Banks.* Flowers blue.

brachiata.

II. ANGIOSPERMIA.

495. LINNÆA. *Gen. pl.* 1037.

1. *L. caule prostrato, ramulis floriferis erectis bifloris, foliis subrotundis antice crenatis.*—*Willd. sp. pl.* 3. p. 340.

Icon. *Fl. dan.* 3. *Engl. bot.* 433. *Fl. lapp. t.* 12. f. 4.

In old fir-woods of Canada and New England, and on the mountains of New York and Pennsylvania. Plentifully in the woods near Wiscasset, Province of Maine, and near the White Lake, on the mountains of New Jersey. *℥. h.* May, June. *v. v.* Flowers white, tinged with red. This interesting and handsome little plant will for ever be the admiration of the botanist, should it even be only for the sake of its name.

borealis.

496. PHRYMA. *Gen. pl.* 994.

1. *P. foliis ovatis grosse serratis petiolatis, spicis terminalibus gracilibus, floribus oppositis.*—*Willd. sp. pl.* 3. p. 179.

Icon. *Pluk. amalth. t.* 380. f. 5. *Lam. illustr. t.* 516.

In shady, rocky woods: Canada to Carolina. *℥.* June—Aug. *v. v.* Flowers small, white with purple.—Walter in his *Flora Caroliniana* has another species which he calls *P. caroliniensis*, foliis sessilibus obovato-oblongis serratis scabris, spica terminali. Of this plant I was not able to find any information in his Herbarium, and strongly suspect he means *Salvia urticifolia* by it.

Leptostachia.

497. VERBENA. *Gen. pl.* 43.

* *Foliis laciniatis.*

1. *V. assurgens; spicis solitariis pedunculatis imbricatis, corollarum laciniis emarginatis, foliis ovalibus inciso-serratis petiolatis.*—*Willd. sp. pl.* 1. p. 119.

Aubletia.

V. longiflora. *Lam. illustr.* 1. p. 57.

Buchnera canadensis. *Linn. mant.* 88.

Glandularia caroliniensis. *Gmel. syst. nat.* 2. p. 920.

Anonymos caroliniensis. *Walt. fl. car.* 164.

Icon. Jacq. hort. 2. t. 176. *Rozier journ. d'hist. nat.* 1. t. 2.

In Carolina and Georgia. ♂. June, July. *v. v.* Flowers large, of a beautiful purple.

bracteosa.

2. *V. pumila*, decumbens, hirsutissima; foliis laciniatis, spica floribus subimbricata, bracteis linearibus longissimis et undique patentibus squarrosa. *Mich. fl. amer.* 2. p. 13.

Zapania bracteosa. *Lam. encycl.* 8. p. 843.

In Illinois and Kentucky. ♀. July. *v. s. in Herb. Lyon.* Flowers light purple.

spuria.

3. *V. caule* decumbente ramosissimo divaricato, foliis multifido-laciniatis, spicis filiformibus, bracteis calyces superantibus.—*Willd. sp. pl.* 1. p. 119.

On slate-hills and lime-stone rocks: Illinois, Virginia and Kentucky. ♂. July, Aug. *v. v.* Flowers very small, blue.

hastata.

4. *V. erecta*, elatior; foliis lanceolatis acuminatis incisoseratis nonnullis inciso-hastatis, spicis linearibus paniculatis subimbricatis.—*Willd. sp. pl.* 1. p. 118.

Icon. Herm. parad. 242.

pinnatifida.

- β. *V. foliis* inciso-pinnatifidis grosse serratis. *Lam. illustr.* 1. p. 57.

On road sides, in wet soil, and on the banks of rivers: Canada to Carolina. ♀. July, Aug. *v. v.* From two to five feet high; flowers purple, sometimes white.

** *Foliis integris.*

paniculata.

5. *V. erecta*, scabriuscula; foliis lanceolatis grosse serratis indivisis, spicis filiformibus imbricatis corymboso-paniculatis.—*Lam. encycl.* 8. p. 548.

On the natural meadows of the high mountains of Virginia and Carolina. ♀. July, Aug. *v. v.* From four to six feet high; flowers very numerous, purple.

urticifolia.

6. *V. erecta*, subpubescens; foliis ovatis acutis serratis petiolatis, spicis filiformibus distinctifloris axillaribus terminalibusque.—*Willd. sp. pl.* 1. p. 119.

Icon. Riv. monop. 57. *Rob. ic.* 26.

On road sides and cultivated grounds: New England to

Carolina. ½. June—Sept. v. v. Flowers very small, white.

7. *V. erecta*, ramosissima; foliis ovato-lanceolatis serratis subpubescentibus, spicis longissimis laxis paniculatis valde diffusis.—*Lam. encycl.* 8. p. 550.

diffusa.

In North America. *Lamarck.* ½. ½. +. Flowers very small, somewhat purple. This species has a very near resemblance to the foregoing.

8. *V. humilis*, erecta; foliis lineari-lanceolatis basi attenuatis rariter serratis lineato-venosis, spicis filiformibus solitariis terminalibus axillaribusve.—*Willd. enum.* 633.

rugosa.

V. angustifolia. *Mich. fl. amer.* 2. p. 14.

In dry soil, on road sides, particularly in lime-stone soil: Pennsylvania to Tennessee. ½. June—Aug. v. v. Not above a foot high; flowers fine blue.

9. *V. erecta*, scabra; foliis oblongo-obovalibus obtusis inæqualiter serratis basi attenuatis subsessilibus, spicis longissimis filiformibus distinctifloris.—*Willd. sp. pl.* 1. p. 119.

caroliniana.

Icon. *Dill. elth. t.* 301. *f.* 388.

In dry sandy fields: Carolina to Georgia. ½. June, July. v. s. Flowers pale red.

10. *V. hirsuta*, albicans; caulibus rigide erectis, foliis sessilibus obovalibus serratis subtomentoso-hirsutissimis, spicis strictis imbricatis subfasciculatis.—*Willd. enum.* 633. *Vent. hort. cels* p. 53. cum icone.

stricta.

V. rigens. *Mich. fl. amer.* 2. p. 14.

In Carolina and the Illinois country. ½. July, Aug. v. s. in *Herb. Lambert.*

498. ZAPANIA. *Lam. illustr.* 1. p. 58.

1. *Z. foliis* ovato-cuneiformibus superne serratis, spicis capitato-conicis solitariis elongato-pedunculatis, caule herbaceo repente.—*Lam. illustr.* 1. p. 59.

nodiflora.

Verbena nodiflora. *Willd. sp. pl.* 1. p. 117.

Lippia nodiflora. *Mich. fl. amer.* 2. p. 15.

Blairia nodiflora. *Gært. de fruct. et sem.* 1. p. 266. t. 56.

Icon. *Lam. illustr.* 1. t. 17. *f.* 3. *Rob. ic.* 30.

On the coast of Virginia and Carolina, and on the banks of the Ohio. ½. July, Aug. v. v. Flowers white, small.

2. *Z. foliis* lineari-lanceolatis argute serratis, spicis capitato-

lanceolata.

conicis solitariis elongato-pedunculatis, caule herbaceo repente. — *Pers. syn.* 2. p. 140.

Lippia lanceolata. *Mich. fl. amer.* 2. p. 15.

In Carolina and Georgia, on the banks of rivers. ♀.
July, Aug. v. v. Flowers white.

499. CAPRARIA. *Gen. pl.* 1030.

multifida.

1. *C. erecta*, viscido-pubescent; foliis superioribus terno-verticillatis multifidis, pedicellis solitariis.—*Mich. fl. amer.* 2. p. 22. t. 36.

On the banks of rivers, in the western parts of the settlements, particularly on the Missouri and Mississippi.
☉. July, Aug. v. s. Flowers small, greenish-white.

500. HERPESTIS. *Gært. carp.* 3. p. 187. t. 214.

Monniera. *Mich. fl. amer.* 2. p. 22.

rotundifolia.

1. *H. minutum* pubescens; foliis subovali-orbiculatis multinerviis, pedunculis passim oppositis folia subæquantibus.

Monniera rotundifolia. *Mich. fl. amer.* 2. p. 22.

On overflowed banks of rivers, in the Illinois and other western parts. ♀. July, Aug. v. s. Flowers pale blue, small.

amplexicaulis.

2. *H. caulibus* lanatis, foliis breviter cordato-ovalibus amplexicaulis integris obtusis, pedunculis folio brevioribus.

Monniera amplexicaulis. *Mich. fl. amer.* 2. p. 22.

In ponds and ditches: Carolina and Georgia. ♀. June—Aug. v. v. Flowers blue, larger than the other species.

cuneifolia.

3. *H. glaberrima*; foliis cuneato-obovalibus superne obsolete subcrenatis, pedunculis folia subæquantibus.

Monniera cuneifolia. *Mich. fl. amer.* 2. p. 22.

On the overflowed banks of rivers, near the sea-shore: Pennsylvania to Carolina. ♀. Aug. v. v. Leaves thick; flowers very small, pale blue.

micrantha.

4. *H. glabra*, succulenta; foliis arcte sessilibus ovalibus obtusis integerrimis striato-nervosis, pedunculis folio brevioribus, calyce 5-phyllo, stylo bifido.

Gratiola repens. *Willd. sp. pl.* 1. p. 103?

Icon. Swartz, ic. t. 33.

On the banks of rivers, to the edge of low water mark :
 Pennsylvania to Virginia. ☉. July, Aug. *v. v.* Flowers
 very small, white. It approaches near to *Linder-*
nia.

50. LINDERNIA. *Gen. pl.* 1031.

1. *L. glaberrima*; foliis oblongo-ovatis obsolete dentatis sessilibus, pedunculis axillaribus unifloris, corollis calyce duplo longioribus, capsulis calyce brevioribus.—
Willd. sp. pl. 3. *p.* 325? *pyxidaria.*
Gratiola inæqualis. Walt. fl. car. 61.
Gratiola anagalloidea. Mich. fl. amer. 1. *p.* 6.
Gratiola floribus pedunculatis, foliis ovatis crenatis. Gron. fl. virg. 3.

2. *L. foliis repando-dentatis, pedunculis brevibus. major.*
 On the banks of ponds and rivers, in gravelly soil : New
 York to Virginia. ☉. July, Aug. *v. v.* Flowers
 blue. The European plant, figured by Schkuhr and
 Krockner, seems to be a very different species from the
 present one, as the corolla is shorter than the calyx.

502. SCROPHULARIA. *Gen. pl.* 1014.

1. *S. foliis cordatis serratis acutis basi rotundatis, petiolis inferne ciliatis, paniculæ fasciculis laxæ paucifloris.— marylandica.*
Willd. sp. pl. 3. *p.* 269.
S. nodosa β. americana. Mich. fl. amer. 2. *p.* 31.
 In low grounds : Pennsylvania to Carolina. ☿. June—
 Aug. *v. v.* Flowers greenish-brown. The plant
 often more than four feet high.
2. *S. foliis lanceolatis inæqualiter serratis acuminatis basi acutis, petiolis nudis, paniculæ fasciculis corymbosis. lanceolata.*
 In wet meadows and woods : Pennsylvania. ☿. Aug.
 Sept. *v. v.* Flowers greenish-yellow.

503. BIGNONIA. *Gen. pl.* 1018.

1. *B. foliis conjugatis cirrhosis, inferioribus ternatis, foliolis ovato-cordatis acuminatis, racemis axillaribus, caule muricato. crucigera.*
Willd. sp. pl. 3. *p.* 296.
Icon. Plum. ic. t. 53.
 In shady woods : Carolina to Florida. ♀. June, July.
v. v. Flowers yellowish-scarlet.
2. *B. foliis conjugatis cirrhosis, foliolis oblongis basi subcordatis, imis simplicibus.—capreolata.*
Willd. sp. pl. 3. *p.* 297.

Icon. *Bot. mag.* 864. *Jacq. hort. schœnbr.* 363.

In shady woods, on the banks of rivers and lakes: Virginia to Florida. $\frac{1}{2}$. July, Aug. *v. v.* Flowers scarlet.

radicans.

3. *B. foliis pinnatis, foliolis ovatis dentatis acuminatis, corymbo terminali, tubo corollæ calyce triplo longiore, caule radicante.*—*Willd. sp. pl.* 3. p. 301.

Tecoma radicans. Juss.

flammea.

- α . *B. floribus luteo-coccineis.*

Icon. *Schmidt arb. t.* 42.

coccinea.

- β . *B. floribus coccineis.*

Icon. *Schmidt arb. t.* 43 & 44. *Bot. mag.* 485. *Catesb. car. l. t.* 65.

On the banks of rivers: Pennsylvania to Florida. $\frac{1}{2}$. July, Aug. *v. v.* This highly ornamental creeper ascends the tallest trees and highest rocks, and with its large scarlet flowers produces one of the most pleasing effects in ornamental gardening.

504. RUELLIA. *Gen. pl.* 1050.

strepens.

1. *R. erecta, hirsuta; foliis petiolatis lanceolato-ovatis integerrimis, pedunculis 1—3-floris, calycis laciniis lanceolatis hispidis tubo corollæ duplo brevioribus.*—*Willd. sp. pl.* 3. p. 363.

Icon. *Schkuhr handb.* 177. *Dill. elth. t.* 249. *f.* 321.

On dry hills, in shady woods: Virginia to Carolina. $\frac{1}{4}$. June, July. *v. v.* Flowers large, pale blue, as are all the following.

oblongifolia.

2. *R. assurgens, dense pubescens; foliis subsessilibus ovato-oblongis, floribus solitariis, bracteis longitudine calycis, calycis laciniis filiformibus longitudine tubi corollæ.*—*Mich. fl. amer.* 2. p. 23.

R. biflora. Willd. sp. pl. 3. p. 368?

In sandy pine-woods: Georgia. $\frac{1}{4}$. June, July. *v. s.* Flowers yellowish-blue.

hybrida.

3. *R. erecta, ramosissima, pilis albidis hirsuta; foliis subsessilibus oblongis utrinque subacutis dense hirsutis, bracteis calyce brevioribus, calycis laciniis linearibus tubo corollæ vix brevioribus.*

In sandy fields near Savannah, Georgia. $\frac{1}{4}$. July. *v. s.* in *Herb. Enslen.*

ciliosa.

4. *R. erecta, ramosa; foliis subsessilibus ovato-oblongis margine nervis venisque pilis albis longe ciliatis, brac-*

teis lanceolatis brevibus, calycis laciniis subulatis tubo corollæ quadruplo brevioribus.

Near Savannah, Georgia. *W.* July. *v. s. in Herb. Enslen.*

3. *R. glabriuscula*, diffusa, radicans; foliis in petiolum longiuscule angustatis ovalibus obtusis, floribus subsessilibus, capsulis linearibus. *Mich. fl. amer.* 2. p. 23. *humistrata.*
In Georgia and Florida. *Michaux.* +.

505. BUCHNERA. *Gen. pl.* 1035.

1. *B. caule simplici*, foliis lanceolatis subdentatis asperis trinerviis, spicis remotifloris.—*Willd. sp. pl.* 3. p. 334. *americana.*
On dry sandy hills: Pennsylvania to Carolina; rare. *W.* July. *v. v.* Flowers deep blue.

506. ANTIRRHINUM. *Gen. pl.* 1007.

1. *A. procumbens*, pilosum; foliis alternis hastatis integerimis, pedunculis solitariis longissimis.—*Willd. sp. pl.* 3. p. 234. *Elatine.*
Icon. Fl. dan. 426. *Engl. bot.* 692.
In sandy fields: Pennsylvania to Virginia. ☉. July, Aug. *v. v.* Flowers yellow mixed with purple.
2. *A. erectum*, glabrum; foliis sparsis lanceolato-linearibus confertis, spicis terminalibus densifloris, calycibus glabris calcare brevioribus.—*Willd. sp. pl.* 3. p. 253. *Linaria.*
Icon. Fl. dan. 982. *Engl. bot.* 658.
In fields and dry hills, near houses; frequent. *W.* June—Aug. *v. v.* Flowers large, yellow. This fine-looking plant is one of the worst and most troublesome weeds in several parts of Pennsylvania and Virginia.
3. *A. assurgens*, glabrum, simplicissimum; foliis sparsis erectis angusto-linearibus obtusis remotis, floribus racemosis, stolonibus procumbentibus.—*Willd. sp. pl.* 3. p. 255. *canadense.*
Icon. Vent. hort. cels 40.
In low grounds: Canada to Carolina. ☉. June—Aug. *v. v.* Flowers small, purple.
4. *A. pusillum*, simplex, glabrum; foliis oppositis linearibus acutis, floribus axillaribus brevi-pedunculatis, calycibus campanulatis. *tenuillum.*

On the banks of the Missouri. *M. Lewis.* ☉. July. *v. v.*; *v. s.* in *Herb. Lewis.* Flowers bright blue, large in proportion to the size of the plant.

- Crontium.* 5. *A. erectum, ramosum, pubescens*; foliis alternis lanceolatis, floribus subspicatis, calycibus digitatis corolla longioribus, corollis ecaudatis.—*Willd. sp. pl.* 3. p. 258.

Icon. *Curt. fl. lond.* 4. t. 45. *Riv. t.* 82.

In fields: Virginia; rare. ☉. July, Aug. *v. v.* Flowers pale purple.

507. GERARDIA. *Gen. pl.* 1004.

* *Flores purpurei.*

- purpurea.* 1. *G. caule opposite ramosissimo, foliis linearibus, floribus axillaribus oppositis subsessilibus.*—*Willd. sp. pl.* 3. p. 221.

Icon. *Pluk. mant. t.* 388. f. 1.

- crassifolia.* β. *G. foliis carnosius brevioribus.*
In fields and woods: New England to Carolina. β. In salt-marshes, near New York, &c. ♂. July, Aug. *v. v.*

- tenuifolia.* 2. *G. paniculato-ramosa*; foliis linearibus, pedunculis axillaribus oppositis flore longioribus.—*Willd. sp. pl.* 3. p. 222.

G. erecta. *Walt. fl. car.* 170. *Mich. fl. amer.* 2. p. 20.

Icon. *Pluk alm. t.* 12. f. 4.

In fields and woods: Pennsylvania to Carolina. ♂. July, Aug. *v. v.*

- setacea.* 3. *G. caule ramosissimo, foliis setaceis, ramulis axillaribus folio longioribus plerumque unifloris.*—*Walt. fl. car.* 170.

In sandy fields: Pennsylvania to Virginia. ☉. Aug. *v. v.*
Resembles the foregoing one; but the flowers are not axillary but terminal, very seldom two on a branch.

- auriculata.* 4. *G. subsimplex, tota aspera*; foliis ovato-lanceolatis basi 2-auriculatis integerrimis, floribus axillaribus oppositis foliisque arcte sessilibus.—*Mich. fl. amer.* 2. p. 20.

In dry stony fields: Virginia and Illinois. ☉. July, Aug. *v. v.* Not above eight inches high, without branches.

- cuneifolia.* 5. *G. paniculato-ramosa*; ramis erectis, foliis cuneato-lanceolatis inæqualiter serratis superioribus alternis,

pedunculis axillaribus folio longioribus, calycibus 5-partitis.

In Georgia. *Bartram. v. s. in Herb. Banks.*

6. *G. ramosissima*; foliis lanceolatis serratis basi attenuatis subpetiolatis, racemis terminalibus, floribus oppositis bracteatis.

fruticosa.

In great abundance in the pine-forests of the Rocky-mountains. *M. Lewis. h. June. v. s. in Herb. Lewis.*

Frut. elegans 3-4-pedalis ramosissimus. *Rami* teretes, dense foliosi, tenuissime pubescentes. *Folia* semuncialia, opposita, lanceolata, acuta, interdum obtusa cum mucrone, superne acute serrata, inferne quasi in petiolum attenuata, integerrima, utrinque glabra. *Racemi* terminales, simplices, erecti, bracteati. *Flores* oppositi, pedicellati, magnitudine et colore *Digitalis purpurei*. *Bractee* oppositæ, sessiles, oblongæ, acutæ, integerrimæ, pedicellis vix breviores. *Calyx* profunde 5-partitus, basi unibracteolatus: laciniis lanceolatis, acutis. *Bracteolæ* lineares, calyce breviores. *Corollæ*: *Tubus* calyce quadruplo longior, superne ventricosus. *Limbus* patens, subæqualis, 5-fidus: *Laciniis* rotundatis. *Filamenta* tubo duplo breviora, imo corollæ inserta. *Antheræ* oblongæ, hirsutissimæ. *Stylus* longitudine tubi. *Capsula*.....

** *Flores flavi.*

7. *G. pubescens*; caulibus subsimplicibus, foliis subsessilibus lanceolatis integerrimis vel dentatis, inferioribus subpinnatifido-incisis, floribus axillaribus oppositis subsessilibus.—*Willd. sp. pl. 3. p. 223.*

flava.

Icon. *Pluk. mant. t. 389. f. 3.*

In dry shady and rocky woods: New England to Florida. *4. July—Sept. v. v.* Flowers large, and, as all the following, yellow. It is seldom more than two feet high.

8. *G. glabra*; caule paniculato, foliis petiolatis pinnatifidis: laciniis lanceolatis acutis integris vel postice incisedentatis, summis lanceolatis integris, floribus axillaribus oppositis pedicellatis.

quercifolia.

Rhinanthus virginicus. Willd. sp. pl. 3. p. 191.

Icon. *Pluk. alm. t. 389. f. 1.*

On the banks of rivers, in rich shady places: Pennsylvania to Carolina. *4. July, Aug. v. v.* From three to five feet high. This fine species has been generally

confounded with the foregoing one, but differs widely from it. The stem is smooth, purple, with a blue dew over it, and very much branched. The flowers are nearly the size, shape, and colour of the preceding species. The original specimen of Gronovius of *Rhinanthus virginicus*, in the Banksian Museum, is evidently our present plant.

Pedicularia. 9. *G. pubescens*, brachiatis-paniculata; foliis oblongis duplicato-inciso-serratis pinnatifidisque, floribus axillaribus oppositis pedicellatis, calycis laciniis foliaceis inciso-dentatis.—*Willd. sp. pl.* 3. p. 223.

Icon. *Lam. illustr. t.* 529. *f.* 2.

In dry shady woods: New York to Carolina. ♂. June—Aug. *v. v.* A very handsome species, of which there are several very striking varieties.

cassioides. 10. *G. virgatim-paniculata*; foliis setaceo-pinnatifidis: laciniis linearibus.

G. Afzelia. Mich. fl. amer. 2. p. 20.

Afzelia cassioides. Gmel. syst. nat. 927.

Anonymos cassioides. Walt. fl. car. 171.

In dry sandy woods of Carolina and Georgia. ☉. July, Aug. *v. s.* Flowers small, yellow.

508. PEDICULARIS. *Gen. pl.* 1003.

euphrasioides. 1. *P. caule ramoso pubescente, foliis pinnatifidis dentatis, calycibus tubulosis bipartitis truncatis, corollæ galea bidentata. Willd. sp. pl.* 3. p. 204.

Icon. *Houttuyn. linn. syst.* 8. *t.* 57.

In Labrador. *Colmaster. A. v. s. in Herb. Dickson.* Flowers yellow; from six to eight inches high.

pallida. 2. *P. caule ramoso elato glabro, foliis suboppositis lanceolatis crenatis dentatis, spica aphylla glabra, corollæ galea obtusa, calyce bifido rotundato.—Herb. Banks.*

P. virginica. Lam. encycl. 5. p. 126.

In swamps, on lime-stone soil: Virginia. *Lamarck.* In a swamp near King's-bridge, New York. *Ph. A.* July, Aug. *v. v.*; *v. s. in Herb. Banks.* Flowers yellow; grows upwards of three feet high. I considered this species to be the *Rhinanthus virginicus*, which Linnæus had adopted from Gronovius's *Flora Virginica*; but on examining the Gronovian Herbarium in the Banksian Museum, I found his *Rhinanthus* to be the *Gerardia quercifolia*.

lanceolata. 3. *P. caule simplici, foliis lanceolatis inciso-dentatis, spica*

aphylla, calycibus glabris, capsulis brevibus. *Mich. fl. amer.* 2. p. 18.

In the Illinois country. *Michaux.* 2.

4. *P. caule simplici, foliis lanceolatis pinnatifidis dentatis, spica foliosa alterniflora hirsuta, capsulis in mucronem gladiatum exertum protractis.*—*Mich. fl. amer.* 3. p. 18. *gladiata.*

In rich soil, in grassy moist places: Pensylvania to Virginia. 2. May, June. *v. v.* Flowers yellow, tinged with purple; sometimes a foot high.

5. *P. caule simplici, foliis pinnatifidis inciso-dentatis, capitulo basi folioso hirsuto, corollis galea setaceo-bidentata, calycibus deorsum truncatis.*—*Willd. sp. pl.* 3. p. 211. *canadensis.*

In woods and meadows: Canada to Carolina. 2. May—July. *v. v.* About a span high; flowers yellowish-white, with a tinge of purple.

6. *P. caule simplici glabro, foliis lanceolatis dentatis crenatis, calycibus bifidis truncatis, corollæ galea acuta.* *Willd. sp. pl.* 3. p. 206. *resupinata.*

Icon. *Gmel. fl. sib.* 3. t. 44.

In Canada. 2. July. *v. s.* About a foot high; flowers deep purple.

7. *P. caule simplici, foliis profunde pinnatifidis, pinnis lanceolatis pinnatifidis dentatis, spica compacta foliosa, calycibus glabris quinquedentatis, corollæ galea obtusissima.* *Willd. sp. pl.* 3. p. 210. *recutita.*

Icon. *Jacq. fl. austr.* 258.

On the north-west coast. *A. Menzies*; and probably throughout Canada. 2. July. *v. s. in Herb. Banks.* Flowers purple.

8. *P. caule simplici, foliis profunde pinnatifidis, pinnis lineari-lanceolatis crenatis, spica laxa subfoliosa, calycibus glabris 5-dentatis, corollæ galea obtusa truncata.* *Willd. sp. pl.* 3. p. 210. *elata.*

In low plains, on the waters of Clarck's river. *M. Lewis.* 2. July. *v. s. in Herb. Lewis.* Near two feet high; flowers purple.

9. *P. caule simplici, foliis pinnatifidis, pinnis serratis, calycibus bifidis oblongis, corollæ galea uncinata truncata.* *Willd. sp. pl.* 3. p. 207. *lapponica.*

Icon. *Fl. dan.* 2. *Fl. lapp. t.* 4. f. 1.

In Labrador. *Colmaster.* 2. July. *v. s. in Herb. Dickson.* Flowers yellow.

- grænlantica.* 10. *P.* caule simplici, foliis profunde pinnatifidis, pinnis lanceolatis acuminatis serratis, calycibus glabris 5-dentatis, corollis clausis, galea uncinato-subulata. *Willd. sp. pl.* 3. p. 212.
 Icon. *Fl. dan.* 1166. *Retz. obs.* 4. t. 1.
 In low plains of the Columbia. *M. Lewis.* 24. July.
v. s. in Herb. Lewis. nec non Lambert. Flowers purple.
- verticillata.* 11. *P.* caule simplici, foliis caulinis profunde pinnatifidis quaternis, pinnis linearibus acute dentatis, spica capitata involucreta, calycibus villosis 5-fidis, corollæ galea obtusissima.
P. verticillata β . *Willd. sp. pl.* 3. p. 214.
P. lanata. *Pallas in Herb. Lambert.*
 On the north-west coast. *Nelson.* 24. *v. s. in Herb. Banks. nec non Lambert.* Not above two inches high; flowers purple.
- flammea.* 12. *P.* caule simplici, foliis pinnatis, pinnis imbricatis ovatis obtusis duplicato-dentatis, calycibus 5-dentatis, corollæ galea obtusa. *Willd. sp. pl.* 3. p. 215.
 Icon. *Fl. dan.* 30. *Fl. lapp. t. 4. f. 2.* *Hall. fl. helv. t. 8. f. 3.*
 In Labrador. *Colmaster.* 24. *v. s. in Herb. Dickson.* Not above three inches high; flowers yellow, with a scarlet helmet.

509. MIMULUS. *Gen. pl.* 1049.

- ringens.* 1. *M. erectus*, glaber; foliis sessilibus lanceolatis acuminatis serratis, pedunculis axillaribus oppositis flore longioribus, dentibus calycis oblongis acuminatis.—*Willd. sp. pl.* 3. p. 360.
 Icon. *Bot. mag.* 283. *Pluk. amalth. t. 393. f. 3.*
 In low grounds, on clay soil: Pennsylvania to Carolina. 24. July, Aug. *v. v.* Flowers pale blue, large.
- alatus.* 2. *M. erectus*, glaber; foliis petiolatis ovatis acuminatis serratis, pedunculis axillaribus oppositis flore brevioribus, dentibus calycis rotundatis mucronatis, caule tetragono alato.—*Willd. sp. pl.* 3. p. 361.
 In ditches and on the borders of ponds: Pennsylvania to Carolina. 24. July, Aug. *v. v.* Flowers the size and colour of the foregoing.
- luteus.* 3. *M. erectus*, glaber, stoloniferus; foliis subrotundo-ovatis nervosis dentatis, inferioribus obtusis petiolatis, superioribus acutis arcte sessilibus, racemo terminali,

pedunculis axillaribus oppositis elongatis, calyce inæquali, dentibus acutiusculis.—*Willd. sp. pl. 3. p. 361.*
Icon. Fœuill. peruv. 2. t. 34.

On the banks of Clark's river. *M. Lewis* On the north west coast. *Pallas. 2. July, Aug. v. s. in Herb. Lewis. nec non Lambert.* Flowers golden-yellow. It has lately been introduced into the gardens, and will be a fine addition to our hardy perennial plants.

4. *M. erectus, pusillus, pubescens; foliis sessilibus oblongo-lanceolatis acutis nervosis mucronato-denticulatis. floribus paucis terminalibus longissime pedunculatis, dentibus calycis acuminatis.*

Lewisii.

On the head springs of the Missouri, at the foot of Portage hill. *M. Lewis. 2. Aug. v. s. in Herb. Lewis.* Not above eight inches high; flowers two or three, larger than any other known species, of a beautiful pale purple.

510. CHELONE. *Gen. pl. 1005.*

1. *C. foliis oppositis lanceolato-oblongis acuminatis serratis, specieis terminalibus densifloris.*—*Willd. sp. pl. 3. p. 225.*

glabra.

α. C. foliis subsessilibus, floribus albis.

β. C. foliis brevi-petiolatis, floribus purpureis.

alba.
purpurea.

C. obliqua. Willd. sp. pl. 3. p. 225

C. purpurea. Mill. dict. n. 2

Icon Schkuhr handb. 172. Mill. ic. 93. Pluk. mant. t. 348. f. 3.

On the banks of rivers, ponds, and swamps: New England to Carolina. *β* In rivulets on the high mountains of Virginia and Carolina. *2. July, Aug. v. n.* Flowers large, in close spikes, in var. *α.* white; purple in var. *β.* I have not been able to find sufficient distinctions between *C. glabra* and *C. obliqua*, so as to consider them distinct species.

511. PENTSTEMON. *Gen. pl. 1758.*

1. *P. caule glabro, foliis lævigatis ovato-oblongis basi amplexicaulibus tenuissime denticulatis. interioribus integerrimis, floribus paniculatis, filamento sterili superne barbato.* *Willd. sp. pl. 3. p. 228.*

lævigata.

Chelone Penstemon J. E. Miller. ic. 4.

Icon. Lam. illustr. 528. Arduin. spec. t. 5. Moris. hist. 2. s. 5. t. 8. f. 6.

In stony low grounds : Pennsylvania to Carolina. $\mathcal{U}$.
July—Sept. *v. v.* From one to two feet high ; flow-
ers pale purple.

- pubescens.* 2. *P. caule pubescente, foliis serrulatis lanceolato-oblongis sessilibus, floribus paniculatis, filamento sterili ab apice infra medietatem barbato.*—*Willd. sp. pl.* 3. *p.* 227.
Chelone Pentstemon. Mant. 415.
- latifolia.* α . *P. foliis lævigatis serratis latioribus.*
Icon. Moris. hist. 3. *s.* 11. *t.* 21. *f.* 2.
- angustifolia.* β . *P. foliis pubescentibus obscure denticulatis angustis.*
P. hirsuta. Willd. sp. pl. 3. *p.* 227.
Chelone hirsuta. Mill. dict. n. 3.
Icon. Moris. hist. 3. *s.* 11. *t.* 21. *f.* 3.
On the side of hills and in dry meadows : New York to Virginia. $\mathcal{U}$. July—Sept. *v. v.* About a foot high ; flowers pale purple, longer than the foregoing species.
- frutescens.* 3. *P. caule fruticoso, ramis angulatis superne pubescentibus, foliis lanceolatis obsolete denticulatis sessilibus glabriusculis, racemis terminalibus subcorymbosis, filamento sterili longitudinaliter barbato.*—*Lambert in linn. trans.* 10. *p.* 259.
Icon. Linn. trans. 10. *t.* 6.
On the north-west coast. *M. Lewis. Unalashka. Pal- las. H. v. s. in Herb. Lambert, nec non Lewis.* A small shrub, about a foot or more high ; flowers purple.

512. MARTYNIA. *Gen. pl.* 1010.

- Proboscidea.* 1. *M. caule ramoso, foliis alternis cordatis integerrimis villosis.*—*Willd. sp. pl.* 3. *p.* 264.
M. alternifolia. Lam. encycl. 2. *p.* 112.
M. annua. Sp. pl. 862.
Icon. Bot. mag. 1056. *Mill. ic.* 286.
On the banks of the Mississippi. $\odot$. July. *v. v.* Flow-
ers large, white, speckled with purple and yellow.
The singular shape of its fruit, connected with the
beauty of its flowers, makes this annual a desirable
plant in all collections.

513. SCHWALBEA. *Gen. pl.* 1001.

- americana.* 1. *S. simplex, pubescens ; foliis lanceolatis, racemo termi- nali, floribus alternis.*—*Willd. sp. pl.* 3. *p.* 201.
Icon. Lam. illustr. 520. *Pluk. mant. t.* 348. *f.* 2.
In pine-barrens : New Jersey to Carolina. $\mathcal{U}$. σ .
June, July. *v. v.* Flowers yellowish-brown.

514. RHINANTHUS. *Gen. pl.* 997.

1. *R. corollarum* labio superiore emarginato bidentato, laciniâ media labii inferioris brevissima. *Willd. sp. pl.* 3. p. 188. *Crista galli.*
 Icon. *Schkuhr handb.* 169. *Fl. dan.* 981. *Engl. bot.* 657.
 In fields and meadows: Lower Canada. ☉. June, July.
v. v. Flowers yellow. *R. virginicus*. Vid. *Gerardia*
 & *Pedicularis pallida*.

515. BARTSIA. *Gen. pl.* 996.

1. *B. foliis alternis linearibus indivisis, superioribus lanceolatis, floralibus subovalibus summitate subdentatis, omnibus 3-nervibus, dentibus calycis acutis.*—*Willd. sp. pl.* 3. p. 186. *Mich. fl. amer.* 2. p. 17. *pallida.*
 Icon. *Gmel. fl. sib.* 3. t. 42.
 In Canada and Labrador. On the White-hills of New Hampshire. *Prof. Peck.* 4. July. *v. s. in Herb. Lambert.* Flowers pale yellow; the floral leaves purple.
2. *B. foliis alternis prælongo-linearibus, floralibus ovatis longissime acuminatis 3-nervibus, omnibus indivisis, floribus bracteis brevioribus, dentibus calycis acutis.* *acuminata.*
 On the north-west coast: Unalashka. 4. *v. s. in Herb. Lambert.*
3. *B. hirsutissima; foliis alternis linearibus inciso-pinnatifidis: laciniis filiformibus, bracteis membranaceis oblongis obtusis basi utrinque hastato-undentatis floribus longioribus, calycibus brevibus pilosis, dentibus subulatis.* *tenuifolia.*
 On the banks of Clarck's river. *M. Lewis.* 4. July. *v. s. in Herb. Lewis.* About a foot high; flowers deep yellow; floral leaves tinged with purple.
4. *B. foliis alternis linearibus inciso-pinnatifidis, laciniis linearibus, bracteis dilatatis plerumque trifidis floribus longioribus, dentibus calycis rotundato-obtusis.*—*Willd. sp. pl.* 3. p. 185. *coccinea.*
 Icon. *Pluk. alm. t.* 102. f. 5. *Moris. hist.* 3. s. 11. t. 13. f. 28.
α. B. bracteis coccineis. *coccinea.*
β. B. bracteis lutescentibus. Rarior. *pallens.*
 In wet meadows: Canada to Florida. ♂. 4. June, July. *v. v.* Flowers yellow, involved in scarlet floral leaves, which give this plant a very elegant appearance.

alpina.

5. *B. foliis oppositis ovatis subcordatis obtuse-serratis rugosis, antheris hirsutis.*—*Willd. sp. pl.* 3. p. 187.
 Icon. *Fl. dan.* 43. *Engl. bot.* 361. *Schkuhr handb.* 169.
 In Labrador. *Colmaster.* ♀. July. *v. s. in Herb. Dickson.* Not above six inches high; floral leaves similar to the stem leaves, purple; flowers long, of a fine deep purple.

Gymnandra.

6. *B. foliis suboppositis ovatis crenatis, binis radicalibus petiolatis, spica oblonga, verticillis bracteatis coarctatis.*—*Willd. sp. pl.* 3. p. 186.

Gymnandra borealis. *Pall. itin.* 3. t. A. f. 1.

Lagotis glauca. *Gært. act. petrop.* 14. t. 18.

On the mouth of the river Columbia. *M. Lewis.* In Unalashka. *Herb. Pallas.* ♀. *v. s. in Herb. Lewis. nec non Lambert.* About a span high; flowers pale blue. This singular plant grows on the most unfertile rocks, exposed to the most rigorous cold winds, in places where vegetation seems entirely to cease.

516. EUPHRASIA. *Gen. pl.* 993.*officinalis.*

1. *E. foliis ovatis obtuse-dentatis, laciniis labii corollæ inferioris emarginatis.* *Willd. sp. pl.* 3. p. 193.
 Icon. *Fl. dan.* 1037. *Engl. bot.* 1416. *Sabb. hort.* 3. t. 9.
 In Canada. *Michaux.* ☉. July—Sept. *v. s.* Flowers white, with purple veins.

latifolia.

2. *E. foliis ovatis dentato-palmatis, floribus spicatis, corollis tubulosis, laciniis labii inferioris obtusis.* *Willd. sp. pl.* 3. p. 192.
 Icon. *Sabb. hort.* 3. t. 7. *Moris. hist.* 3. s. 11. t. 24. f. 8.
 In Labrador. *Colmaster.* ☉. July. *v. s. in Herb. Dickson.* Flowers smaller, pale purple.

517. MELAMPYRUM. *Gen. pl.* 999.*lineare.*

1. *M. gracile; foliis inferioribus linearibus integris, floralibus lanceolatis postice dentatis, floribus axillaribus distinctis.*—*Lam. encycl.* 4. p. 23.
M. americanum. *Mich. fl. amer.* 2. p. 16.
 In shady woods, particularly on the mountains: Canada to Carolina. ☉. July, Aug. *v. v.* Flowers yellow.

518. OBOLARIA. *Gen. pl.* 1044.

1. *O.* caule simplici, foliis oblongis truncatis carnosis subtus purpureis, floribus axillaribus solitariis sessilibus.—*Willd. sp. pl.* 3. p. 346. *virginica.*
Icon. Pluk alm. t. 209. *f.* 6. *Moris. hist.* 3. s. 12. *t.* 16. *f.* 23.
 In shady rocky places: Pennsylvania to Virginia; rare. Not above three inches high; flowers pale red, in a spike, supported by purple bractes.

519. OROBANCHE. *Gen. pl.* 1045.

1. *O.* caule ramoso, floribus alternis distantibus, corollis deciduis 4-dentatis.—*Willd. sp. pl.* 3. p. 351. *virginiana.*
Icon. Moris. hist. 3. s. 12. *t.* 16. *f.* 9.
 Parasitic on the roots of beech-trees: Canada to Georgia. *¶*. July—Sept. *v. v.* Flowers small, purple. This plant is known by the name of *Cancer-root*, being thought to be a never-failing remedy in cancerous ulcers.
2. *O.* caule simplicissimo squamis ovali-lanceolatis imbricatis oblecto, spica terminali glabra, corollis recurvatis, staminibus exertis.—*Willd. sp. pl.* 3. p. 351. *americana.*
 Parasitic on the roots of trees: Pennsylvania to Carolina. *¶*. July. *v. v.* About a span high, of a brownish-yellow colour.
3. *O.* scapis nudis unifloris, calyce ebracteato, corolla recurvata.—*Willd. sp. pl.* 3. p. 352. *uniflora.*
Icon. Pluk. mant. t. 348. *f.* 3.
 Parasitic on the roots of different plants and shrubs: Canada to Virginia. *¶*. June, July. *v. v.* Not above two or three inches high, of a tan colour; flowers pale purple.

XIV. TETRADYNAMIA.

I. SILICULOSA.

* *Silicula integra.*

520. DRABA. *Silicula* integra, ovali-oblonga, valvis planiusculis dissepimento parallelis.
521. MYAGRUM. *Silicula* suberosa, evalvis, loculis fertilibus atque spuriiis, sibi mutuo superimpositis. *Stylus* persistens.
522. CAKILE. *Silicula* lanceolata, subtetragona, medio utrinque dente instructa, biarticulata, ad articulos sedens : articulis monospermis, evalvibus.

** *Silicula apice emarginata.*

523. ALYSSUM. *Filamenta* quædam introrsum denticulo notata. *Silicula* emarginata, plerumque pilosa.
524. CORONOPUS. *Silicula* reniformis, compressa, corrugata, loculis evalvibus monospermis
525. LEPIDIUM. *Silicula* emarginata, cordata, polysperma : valvulis carinatis dissepimento contrariis.
526. THLASPI. *Silicula* emarginata, obcordata, polysperma : valvulis navicularibus, marginato-carinatis.

II. SILIQUOSA.

* *Calyx clausus, foliolis longitudinaliter conniventibus.*

527. ERYSIMUM. *Siliqua* columnaris, tetraëdra.
528. CHEIRANTHUS. *Silicula* compressa. *Stigma* bilobum. *Germen* utrinque denticulo glandulato.
529. HESPERIS. *Petala* oblique flexa. *Siliqua* stricta. *Stigma* basi bifurca apice connivente. *Glandula* intra stamina breviora.
530. ARABIS. *Siliquæ* compressæ. *Glandulæ* nectari-

feræ 4. singula intra calycis foliola, squamæ instar reflexæ.

531. TURRITIS. *Siliqua* longissima, angulata, striata. *Cal.* connivens, erectus. *Petala* erecta.
532. BRASSICA. *Cal.* erectus, connivens. *Dissepimentum* prominens. *Sem.* globosa. *Glandula* inter stamina breviora et calycem. *Siliqua* teres, rostrata.
533. DENTARIA. *Siliqua* elastice dissiliens, valvulis revolutis. *Dissepimentum* subfungosum. *Stigma* emarginatum. *Cal.* connivens.

** *Calyx* hians, *foliolis* superne distantibus.

534. CARDAMINE. *Siliqua* elastice dissiliens, valvulis revolutis. *Stigma* integrum.
535. SISYMBRIUM. *Siliqua* rostro brevi tereti dehiscens, valvulis rectiusculis. *Corolla* patens.
536. CLEOME. *Glandulæ* nectariferæ 3. ad singulum sinum calycis singulæ, excepto infimo. *Petala* omnia adscendentia. *Germen* stipitatum. *Siliqua* 1-locularis, 2-valvis.

I. SILICULOSA.

520. DRABA. *Gen. pl.* 1076.

1. D. scapo nudo, foliis oblongis acutis subserratis hirtis, petalis bifidis, stigmatе sessili.—*Willd. sp. pl.* 3. p. 426. *verna.*
Icon. Fl. dan. 983. *Engl. bot.* 586.
 In cultivated grounds and old fields : Canada to Virginia.
 ☉. March—May. *v. v.* All the species of this genus are small plants with white flowers.
2. D. scapo nudo, foliis ovalibus acutis hirsutissimis, siliculis longo-linearibus glabris approximatis.—*Nich. fl. amer.* 2. p. 28. *hispidula.*
D. caroliniana. Walt. fl. car. 174.
 In sandy fields : Virginia and Carolina, and on the banks of the Missouri. ☉. April—June. *v. v.*
3. D. scapo subunifolio adscendente, foliis lanceolatis integerrimis subtomentosis : pilis stellatis, petalis retusis. *nivalis.*
 —*Willd. sp. pl.* 3. p. 427.

- Icon. *Fl. dan.* 142. *Liljeblad nov. act. ups.* 6. t. 2. f. 2.
In Labrador. *Colmaster*. ☉. May. *v. s. in Herb. Dickson.*
- glabella.* 4. *D. scapo subbifolio erecto, foliis spathulato-lanceolatis glabriusculis, racemo densifloro, siliculis ovato-lanceolatis acutis.*
In Hudson's Bay. ☉. *v. s. in Herb. Banks.*
- incana.* 5. *D. foliis caulinis numerosis incanis, pilis implexis stellatis, siliculis oblongis obliquis stylo brevissimo mucronatis.*—*Willd. sp. pl.* 3. p. 430.
Icon. *Fl. dan.* 130. *Engl. bot.* 388. *Pluk. alm.* t. 42. f. 1.
In Labrador. ♂. May, June. *v. s. in Herb. Lambert.*
- arabisans.* 6. *D. caule folioso subramoso, foliis radicalibus cuneato-lanceolatis, caulinis lanceolatis, omnibus acutis divaricato-dentatis, siliculis stylo acuminatis.*—*Mich. fl. amer.* 2. p. 28.
On rocks, near the banks of rivers: Canada to Virginia.
♂. May, June. *v. v.* I collected specimens on the rocks near Harper's Ferry, Virginia.

521. MYAGRUM. *Gen. pl.* 1069.

- argentum.* 1. *M. undique cano-tomentosum; siliculis oblongis pedunculatis tomentosis, foliis lineari-spathulatis sensim attenuatis integerrimis, petalis obovatis.*
On the banks of the Missouri. ♂. *v. s.* Flowers yellow; the whole of the plant has some resemblance to *Alyssum saxatile*.

522. CAKILE. *Gært. sem.* 2. p. 287.

- maritima.* 1. *C. foliis pinnatis, pinnis linearibus subdentatis.* *Willd. sp. pl.* 3. p. 416.
Bunias Cakile. Sp. pl. 936.
Icon. *Engl. bot.* 231.
On the sea-coast: Canada to Virginia. ☉. July, Aug. *v. v.* Flowers purple.

523. ALYSSUM. *Gen. pl.* 1081.

- hyperboreum.* 1. *A. caulibus herbaceis, foliis incanis dentatis, staminibus*
4. *bifurcatis.* *Willd. sp. pl.* 3. p. 463.
Icon. *Kraschen. act. petr.* 1747. t. 15. f. 1.
On the north-west coast. †.

524. CORONOPUS. *Gært. sem. t. 142.*

1. *C. siliculis integris cristato-muricatis, stylo porrecto, corymbis paucifloris.* *Smith fl. brit. 2. p. 690.*
Cochlearia Coronopus. Willd. sp. pl. 3. p. 450.
Icon. Fl. dan. 202. Engl. bot. 1660.
 On road-sides : Virginia and Carolina. ☉. June—Aug.
v. v. Flowers very small, white.
2. *C. siliculis emarginatis didymis reticulato-rugosis, stylo obsoleto, corymbis multifloris.* *Smith fl. brit. 2. p. 691.*
Cochlearia humifusa. Mich. fl. amer. 2. p. 27.
Lepidium didymum. Willd. sp. pl. 3. p. 439.
Lepidium anglicum. Huds. angl. 280.
Biscutella apetala. Walt. fl. car. 174.
 In cultivated grounds of Virginia and Carolina. ☉. June—Aug. *v. v.* Smaller than the foregoing species ; both have pinnated leaves.

*Ruellii.**didyma.*525. LEPIDIUM. *Gen. pl. 1077.*

1. *L. foliis radicalibus pinnatifidis, caulinis lineari-lanceolatis subinciso-serratis, floribus 4-petalis diandris, siliculis lentiformibus.*—*Willd. sp. pl. 3. p. 440.*
Icon. Sloan. jam. 1. t. 123. f. 3. Moris. hist. 2. s. 3. t. 21. f. 2.
 In dry fields and orchards : New York to Carolina. ♂. June—Aug. *v. v.* About a foot high ; flowers not conspicuous.

*virginicum.*526. THLASPI. *Gen. pl. 1078.*

1. *T. siliculis orbiculatis compressis lævibus, foliis oblongis dentatis glabris.*—*Willd. sp. pl. 3. p. 442.*
Icon. Fl. dan. 793. Engl. bot. 1659.
 In stony fields : New York and Pennsylvania ; rare. ☉. June, July. *v. v.*
2. *T. hirsutum, siliculis deltoideo-obcordatis, foliis radicalibus pinnatifidis.*—*Willd. sp. pl. 3. p. 447.*
Icon. Engl. bot. 1485. Schkuhr handb. 180.
 A common weed, every where to be found in cultivated grounds. ☉. April—Sept. *v. v.*

*arvense.**Bursa pastoris.*

II. SILIQUOSA.

527. ERYSIMUM. *Gen. pl.* 1090.

- officinale.* 1. *E. siliquis spicæ adpressis, foliis uncinatis.* *Willd. sp. pl.* 3. p. 509.
Icon. Fl. dan. 560. *Schkuhr handb.* 183.
 On road sides, frequent : Canada to Carolina. ☉. June, July. *v. v.* Flowers small, yellow.
- cheiranthoides.* 2. *E. siliquis erectis, pedicellis fructiferis patentibus, foliis lanceolatis subintegerrimis.*—*Willd. sp. pl.* 3. p. 511.
Icon. Fl. dan. 731 & 923. *Engl. bot.* 942. *Jacq. fl. austr.* 23.
 In old fields and on road sides : Virginia ; rare. ☉. June, July. *v. v.* Flowers yellow.
- lanceolatum.* 3. *E. foliis lanceolatis inferioribus dentatis, unguibus calyce longioribus, laminis orbiculato-obovatis, stigmatate sessili.* *Ait. kew. ed. 2. t. 4. p.* 116.
Cheiranthus erysimoides. *Willd. sp. pl.* 3. p. 514.
Icon. Jacq. fl. austr. 74.
 On the banks of the Missouri. ♂. June. *v. s.*

528. CHEIRANTHUS. *Gen. pl.* 1091.

- Pallasii.* 1. *C. caule simplici tereti glabriusculo, foliis glabris lanceolato-linearibus attenuatis repando-dentatis.*
 On the north-west coast. *Pallas.* ♂. July. *v. s. in Herb. Lambert.* Flowers dark red, the size of *C. Cheiri*.

529. HESPERIS. *Gen. pl.* 1093.

- pinnatifida.* 1. *H. foliis argute serratis ; superioribus lanceolatis, inferioribus inferne pinnatifidis, siliquis brevi-pedunculatis breviusculis.* *Mich. fl. amer.* 2. p. 31.
 In shady woods : Kentucky and Tennessee. ♂. June. *v. v.*

530. ARABIS. *Gen. pl.* 1049.

- alpina.* 1. *A. foliis oblongo-lanceolatis amplexicaulibus acute dentatis.* *Willd. sp. pl.* 3. p. 534.
Icon. Bot. mag. 226. *Fl. dan.* 62.
 In Labrador. *Colmaster.* ♀. May, June. *v. s. in Herb. Dickson.* Flowers, as all the following, white.

2. *A. foliis radicalibus oblongis petiolatis, caulinis lanceolatis sessilibus, caule erecto basi hirtio, petalis calyce duplo longioribus.* *Willd. sp. pl. 3. p. 535.*
 Icon. *Schkuhr handb.* 185. *Curt. fl. lond.* 2. t. 49.
 In dry sandy fields and on old walls: New England to Virginia. ☉. April—July. *v. v.* *thaliana.*
3. *A. foliis subrotundis integerrimis hirsutis, surculis repantibus.* *Willd. sp. pl. 3. p. 536.*
 Icon. *Pluk. alm. t. 51. f. 5.*
 In sandy fields: Pennsylvania to Virginia. ♀. June, July. *v. v.* *reptans.*
4. *A. foliis glabris, radicalibus lyratis, caulinis linearibus.* *Willd. sp. pl. 3. p. 538.*
 In fields and on dry hills: Canada to Pennsylvania. ☉. March—May. *v. v.* *lyrata.*
5. *A. foliis dentatis obtusis hispidis, radicalibus sublyratis, caulibus hispidis, petalis erectis.*—*Willd. sp. pl. 3. p. 539.*
A. hispida. *Ait. kew. 2. p. 400.*
 Icon. *Engl. bot.* 614.
 In Labrador. *Colmaster.* ♀. May. *v. s. in Herb. Dickson.* *stricta.*
6. *A. foliis lanceolatis utrinque angustatis remote dentatis hastato-sessilibus, siliquis pendulis ancipitibus falcatis.*—*Mich. fl. amer. 2. p. 31.*
A. canadensis. *Willd. sp. pl. 3. p. 540.*
 Turritis foliis lanceolatis dentatis, radicalibus maximis, siliquis compressis falcatis. *Gron. fl. virg. 1. p. 77.*
 Icon. *Pluk. alm. t. 86 f. 8.*
 In rocky shady situations: Canada to Virginia. ♀. May, June. *v. v.*; *v. s. in Herb. Gronov.* From two to five feet high. *falcata.*
7. *A. foliis glabris rhomboideis repando-obsolete-dentatis, infimis longe petiolatis, radice tuberosa.*—*Pers. syn. 2. p. 204.* *rhomboidea.*
A. bulbosa. *Muhl. in litt.*
A. amara. *Herb. Banks.*
A. foliis ovatis denticulatis glabris. *Gronov. virg. 99.*
 On the borders of rivulets and springs. ♀. March—May. *v. v.* This is one of the early spring flowers; the taste resembling spring cresses. It would be desirable to have it introduced into the gardens for that purpose, as it will grow in any soil.

531. TURRITIS. *Gen. pl.* 1095.

- lævigata.* 1. *T. foliis glabris, radicalibus obovatis serratis, caulinis lanceolato-linearibus integerrimis amplexicaulibus.* *Willd. sp. pl.* 3. p. 543.
On rocks: Pennsylvania to Virginia; rare. ♂. May, June. *v. v.* Very smooth and glaucous, about a foot high.
- ovata.* 2. *T. pubescens; foliis radicalibus petiolatis ovatis dentatis obtusis, caulinis amplexicaulibus oblongis serratis acutis.*
On rocks: Pennsylvania to Virginia. ♂. May, June. Resembles *T. hirsuta*.

532. BRASSICA. *Gen. pl.* 1096.

- Napus.* 1. *B. radice caulescente fusiformi, foliis lævibus, superioribus cordato-lanceolatis amplexicaulibus, inferioribus lyratis dentatis.* *Willd. sp. pl.* 3. p. 547.
Icon. Engl. bot. 2146.
Rape frequently is found wild, but is of European origin. ♂. May, June. *v. v.*
- Rapa.* 2. *B. radice caulescente orbiculari depressa carnosa, foliis radicalibus lyratis scabris, caulinis integerrimis lævibus.* *Willd. sp. pl.* 3. p. 548.
Icon. Engl. bot. 2176.
Turnips are likewise apparently indigenous.

533. DENTARIA. *Gen. pl.* 1087.

- laciniata.* 1. *D. foliis ternis ternatis, foliolis tripartitis lineari-oblongis incis dentatis, radicis tuberibus moniliformibus.*—*Willd. sp. pl.* 3. p. 479.
D. concatenata. *Mich. fl. amer.* 2. p. 30.
In shady mountainous situations: New England to Carolina. ♀. May, June. *v. v.* Flowers large, pale purple.
- diphylla.* 2. *D. caulibus approximate diphyllis, foliolis ternis ovato-oblongis inequaliter inciso-dentatis, radice dentata.*—*Mich. fl. amer.* 2. p. 30.
Icon. Bot. mag. 1465.
In shady beech-woods, on high mountains: Pennsylvania to Carolina. ♀. May, June. *v. v.* Flowers pale red, with a tinge of yellow. The roots of this plant

are of a pungent mustard-like taste, and are used by the natives instead of mustard; in the mountains it is generally known by the name of *Pepper-root*. The figure in the Botanical Magazine is taken from an individual plant, in which the radical leaf is bilobed, which is not always the case.

3. *D. caule distanter diphylo, foliis sessilibus ternatis, foliolis lineari-ellipticis integris, petalis cuneatis.* *tenella.*

On the banks of the Columbia. *W.* April. *v. s. in Herb. Lewis.* Very slender; leaves small; flowers purple.

534. CARDAMINE. *Gen. pl.* 1088.

1. *C. foliis simplicibus suborbiculatis integrisculis, caulibus simpliciusculis debiliter procumbentibus.* *Mich. fl. amer. 2. p. 30.* *rotundifolia.*

On rocks, in the rivulets of the high mountains of Virginia and Carolina. *W.* May, June. *v. v.* The flowers of all the following species are white and small.

2. *C. caule nudo, foliis radicalibus lanceolatis inciso-dentatis glabris, siliquis turgidis subarticulatis.* *articulata.*

On the north-west coast. *Nelson. W. v. s. in Herb. Banks.* A doubtful species.

3. *C. parvula; caulibus decumbentibus, foliis radicalibus spathulatis pubescentibus, caulinis lineari-cuneatis integris dentatisque, siliquis divaricato-laxis.*—*Mich. fl. amer. 2. p. 29.* *spathulata.*

On high mountains of Carolina. *Michaux. +.*

4. *C. pusilla, acaulis; foliis obtuse lyrato-pinnatifidis, pedunculis radicalibus unifloris.* *Mich. fl. amer. 2. p. 29.* *uniflora.*

On rocks near Knoxville, Kentucky. *Michaux. +.*

5. *C. pusilla, erecta, ramosa; foliis omnibus sublyrato-pinnatifidis, siliquis brevibus linearibus acuminatis teretibus, brevissime pedicellatis.* *Mich. fl. amer. 2. p. 29.* *teres.*

In overflowed places: New England to New Jersey. *W.* June, July. *v. v.*

6. *C. glabra, erecta; foliis pinnatis, foliolis lanceolatis subauriculatis, siliquis longis stricte erectis.*—*Willd. sp. pl. 3. p. 488.* *virginica.*

Icon. *Pluk. alm. t. 101. f. 4. Petiv. gaz. t. 105. f. 18.*

In low meadows: Canada to Carolina. *W.* May, June. *v. v.*

- pensylvanica*. 7. *C. glabra*, ramosa; foliis pinnatis, foliolis subrotundo-oblongis obtusis angulato-dentatis, siliquis angustis erectis.—*Willd. sp. pl.* 3. p. 486.
In low meadows: New York to Pennsylvania. $\mathcal{U}$. June. *v. v.*
- pratensis*. 8. *C. glabra*, erecta, simplex; foliis pinnatis, foliolis radicalibus subrotundis dentatis, caulinis lanceolatis subintegris, racemis subcorymbosis.—*Willd. sp. pl.* 3. p. 487.
Icon. Fl. dan. 1039. *Engl. bot.* 776.
In meadows: Hudson's Bay. $\mathcal{U}$. May. *v. s. in Herb. Banks.* Flowers large, reddish purple.
- multifida*. 9. *C. pubescens*, ramosa; foliis interrupte pinnatis, pinnis bipinnatifidis, laciniis rotundatis incisissimis, siliquis brevibus.—*Herb. Banks.*
In Florida. *Bartram.* $\mathcal{U}$. *v. s. in Herb. Banks.*
535. SISYMBRIUM. *Gen. pl.* 1089.
- Nasturtium*. 1. *S. siliquis declinatis brevibus, foliis pinnatis, foliolis subrotundis repando-pauci-dentatis.*—*Willd. sp. pl.* 3. p. 489.
Icon. Fl. dan. 690. *Schkuhr handb.* 187.
In rivulets and springs: New England to Virginia. $\mathcal{U}$. June, July. *v. v.* *Water-Cress* is found in most countries; I observed it in abundance in the rivulets on the high mountains of the island of Dominica.
- palustre*. 2. *S. siliquis declinatis oblongo-ovatis, foliis pinnatifidis serratis, petalis calyce brevioribus.* *Willd. sp. pl.* 3. p. 490.
S. terrestre. Smith fl. brit. 2. p. 701.
Icon. Fl. dan. 409. *Schkuhr handb.* 187.
In inundated and low grounds: Canada to Carolina. $\odot$. July, Aug. *v. v.* Flowers yellow.
- amphibium*. 3. *S. siliquis declinatis oblongo-ovatis, foliis oblongo-lanceolatis pinnatifidisve serratis, petalis calyce longioribus.* *Willd. sp. pl.* 3. p. 491.
Icon. Fl. dan. 984.
In ponds and ditches: Pennsylvania to Virginia. $\mathcal{U}$. June, Aug. *v. v.* Flowers yellow.
- Sophia*. 4. *S. foliis pinnato-decompositis subpilosis, petalis calyce minoribus.* *Willd. sp. pl.* 3. p. 500.
Icon. Fl. dan. 528. *Engl. bot.* 963.
On road sides: Virginia; rare. $\odot$. July, Aug. *v. v.* Flowers very small, pale yellow.

536. CLEOME. *Gen. pl.* 1099.

1. *C. floribus gynandris, foliis quinatis, caule inermi.* *pentaphylla.*
Willd. sp. pl. 3. p. 564.

Icon. *Jacq. hort. vind. 24. Rheed. mal. 9. t. 24.*

In cultivated grounds: Pennsylvania and Virginia; rare.

☉. July. *v. v.* Flowers pale red, of a singular structure.

2. *C. glabra; floribus hexandris, foliis ternatis, foliolis lanceolatis tenuissime serrulatis, racemo elongato, bracteis linearibus.* *serrulata.*

On the banks of the Missouri. ☉. Aug. *v. s. in Herb. Lewis.* Flowers pale purple or white.

3. *C. glabrum; floribus dodecandris, foliis ternatis ellipticis, floribus axillaribus solitariis.*—*Willd. sp. pl. 3. p. 566.* *dodecandra.*

Icon *Sloan. hist. 1. t. 124. f. 1.*

On the banks of the Mississippi. ☉. July. *v. v.* Flowers purple.

XV. MONADELPHIA.

I. TRIANDRIA.

537. PHYLLANTHUS. *Cal.* 6-partitus, campanulatus, *Cor.* 0. *Styli* 3, bifidi. *Caps.* 3-locularis. *Sem.* solitaria. *Monoicus*.
538. MELOTHRIA. *Cal.* 5-dentatus. *Cor.* campanulata. *Stigm.* 3. *Bacca* 3-locularis, polysperma.
539. MOMORDICA. *Cal.* 5-fidus. *Cor.* 5-partita. *Styl.* 3-fidus. *Pepo* sicca elastice dissiliens. *Sem.* compressa. *Monoica*.
540. SICYOS. *Cal.* 5-dentatus. *Cor.* 5-partita. *Styl.* 3-fidus. *Pepo* monosperma. *Monoica*.

II. PENTANDRIA.

541. PASSIFLORA. *Cal.* 5-partitus. *Pet.* 5, calyci inserta. *Nectar.* corona filamentosa. *Styli* 3. *Pepo* pedicellata.
542. IRESINE. *Cal.* 2-phyllus. *Pet.* 5. *Nectar.* 5-6-7. *Stigm.* 2, sessilia. *Caps.* seminibus tomentosis. *Dioica*.
543. ILLECEBRUM. *Cal.* 5-phyllus, cartilagineus. *Cor.* 0. *Squamulæ* 5, basi in tubum connatæ. *Stigma* 2-fidum. *Caps.* 1-sperma, calyce tecta.
544. GALAX. *Cal.* 5-partitus. *Pet.* 5, imo staminum affixa. *Urceolus* 10-fidus, laciniis 5, alternis brevioribus, antheriferis. *Stigm.* 3-lobum. *Caps.* 3-locularis, 3-valvis, polysperma.
545. LOBELIA. *Cal.* 5-fidus. *Cor.* 1-petala, irregularis, sæpius fissa. *Caps.* infera, 2-3-locularis.

III. DECANDRIA.

546. GERANIUM. *Cal.* 5-phyllus. *Pet.* 5. *Stam.* 10.
Stigm. 5. *Arilli* 5. monospermi, aristati.

IV. POLYANDRIA.

547. HALEZIA. *Cal.* 4-dentatus, superus. *Cor.* 4-fida.
Stam. 8—12. *Nux* 4-angularis, 2-sperma.
548. STYRAX. *Cal.* subinteger, inferus. *Cor.* infundibuliformis, 5—7-partita. *Stam.* 8—16. *Drupa* 1—2-sperma, coriacea.
549. HOPEA. *Cal.* 5-fidus, superus. *Cor.* 5-petala.
Stam. multa, connata in 5. corpora. *Styl.* 1. *Drupa* nuce 3-loculari.
550. GORDONIA. *Cal.* 5-phyllus. *Pet.* 5. basi connata.
Styl. 5-gonus, stigmatē 5-fido. *Caps.* 5-locularis.
Recept. centrale, columnare. *Sem.* bina, ala foliacea.
551. STEWARTIA. *Cal.* 5-partitus. *Pet.* 5. *Styl.* 5.
connati s. liberi. *Stigm.* capitatum, sub-5-lobum.
Caps. 5-locularis, 5-valvis, valvulis medio septiferis,
loculis 1—2-spermis. *Sem.* 1—2. ossea.
552. SIDA. *Cal.* simplex, angulatus. *Styl.* multipartitus.
Caps. plures, 1-spermæ.
553. CRISTARIA. *Cal.* simplex, 5-fidus. *Pet.* 5. unguiculata.
Styli plures. *Fructus* orbiculato-depressus,
pellicula tectus, dehiscens in *Arillos* bialatos.
554. MALVA. *Cal.* duplex : exterior 3-phyllus. *Pet.* 5.
Caps. plurimæ, evalves, 1-spermæ.
555. MALOPE. *Cal.* duplex : exterior 3-phyllus. *Caps.*
absque ordine glomeratæ, monospermæ.
556. HIBISCUS. *Cal.* duplex : exterior polyphyllus.
Pet. 5. *Caps.* 5-locularis, polysperma.

I. TRIANDRIA.

537. PHYLLANTHUS. *Gen. pl.* 1412.

1. *P. foliis obovatis obtusiusculis, floribus geminis axillaribus pedicellatis, caule erecto ramoso tereti.* Willd. *sp. pl.* 4. p. 574.

obovatus.

P. carolinensis. *Walt. fl. car.* 228. *Mich. fl. amer.* 2. p. 209.

In gravelly soil, on the banks of rivers: Pennsylvania to Georgia. ☉. June, July. *v. v.* About a span or more high; the branches grow regularly in two rows.

538. MELOTHRIA. *Gen. pl.* 68.

pendula.

1. *M. foliis subreniformibus lobato-angulosis: lobo impari cæteris æquali, bacca cylindræeo-ovata. Mi h. fl. amer.* 2. p. 217. *Willd. sp. pl.* 1. p. 189.

Icon. Pluk. olm. t. 85. f. 5.

In sandy, wet places, particularly on the islands of large rivers: Virginia to Georgia. ☉. June. *v. v.* Flowers small, yellow. Fruit the size of a pea, black.

539. MOMORDICA. *Gen. pl.* 1477.

echinata.

1. *M. pomis tetraspermis subrotundis setoso-echinatis, foliis cordatis 5-lobo-angulatis acuminatis integerrimis glabris. Willd. sp. pl.* 4. p. 605.

Sicyos lobata. Mich. fl. amer. 2. p. 217.

In the western parts of the United States: On the banks of the Ohio and Mississippi. ☉. July. *v. v.* Fruit the size of a gooseberry.

540. SICYOS. *Gen. pl.* 1481.

angulata.

1. *S. foliis angulo obtuso cordatis 5-angularibus denticulatis scabris, fructibus capitatis, hispidis.—Willd. sp. pl.* 4. p. 625.

Icon. Dill. elth. t. 51. f. 59. *Herm. parad. t.* 133.

On the banks of rivers: Canada to Carolina. ☉. June, July. *v. v.*

II. PENTANDRIA.

541. PASSIFLORA. *Gen. pl.* 509.

lutea.

1. *P. foliis cordatis trilobis obtusis glabris, petiolis eglandulosis, pedunculis axillaribus geminis, petalis calyce duplo angustioribus. Willd. sp. pl.* 3. p. 615.

Icon. Cavan. diss. 10. t. 267. *Jacq. ic.* 3. t. 607.

On the banks of rivers, in shady rocky situations : Virginia to Florida. $\mathcal{U}$. June—Aug. *v. v.* Flowers small, greenish-yellow.

2. *P. foliis peltatis profunde trilobis glabris, lobis linearilanceolatis divaricatis, petiolis biglandulosis, pedunculis solitariis axillaribus, floribus apetalis.* Willd. *sp. pl.* 3. p. 617.

pellata.

Icon. *Cavan. diss.* 10. t. 274. *Pluk. alm.* t. 210. f. 4.

In Virginia and Georgia. $\mathcal{h}$. *v. s.* Flowers of a middle size.

3. *P. foliis trilobis serratis, lobis oblongis acutis, petiolis biglandulosis, involucrio triphylo, foliolis lanceolatis glanduloso-dentatis, filis coronæ corolla longioribus.* Willd. *sp. pl.* 3. p. 621.

incarnata.

Icon. *Cavan. diss.* 10. 293. *Hern. mex.* t. 888. *Rob. ic.* 193.

On the banks of rivers of Virginia and Carolina. $\mathcal{U}$. June—Aug. *v. v.* Flowers beautiful, blue and variegated.

542. IRESINE. *Gen. pl.* 1519.

1. *I. foliis punctato-scabris, inferioribus lato-ovalibus, superioribus ovato-lanceolatis, panicula ramosa conferta, caule sulcato.*—Willd. *sp. pl.* 4. p. 765.

celosioides.

In overflowed grounds, on the banks of rivers : Virginia to Florida. $\odot$. July, Aug. *v. v.* Flowers exceeding small.

543. ILLECEBRUM. *Gen. pl.* 407.

1. *I. caulibus repentibus hirsutis, foliis lato-lanceolatis petiolatis, capitulis orbiculatis nudis sessilibus.*—Willd. *sp. pl.* 1. p. 1208.

polygonoides.

Gomphrena polygonoides. *Sp. pl.* 225.

I. Achyrantha. *Walt. fl. car.* 103.

Icon. *Sloan. hist.* 1. t. 86. f. 2.

On the sea-coast : Virginia to Carolina ; plentifully about Charlestown, South Carolina. $\mathcal{U}$. June—Aug. *v. v.* A low creeping plant, with small flowers, in spiny clusters.

2. *I. caulibus repentibus glabris, foliis lato-lanceolatis petiolatis, capitulis orbiculatis pubescentibus.* Willd. *sp. pl.* 1. p. 1208.

ficoideum.

Achyranthes ficoidea. *Pers. syn.* 1. p. 259.

Icon. *Jacq. amer. t. 60. f. 4.*

On the sea-coast: Carolina to Florida. *Ÿ. July, Aug. v. v.* Resembles the former one.

- vermiculatum.* 3. *I. glabrum*; caulibus repentibus, foliis subteretibus car-nosis, capitulis solitariis terminalibus oblongis.—*Sp. pl. 300.*

Gomphrena vermicularis. Willd. sp. pl. 1. p. 1322.

Icon. *Herm. parad. t. 15. Pluk. alm. t. 75. f. 9.*

On the sea-coast: Carolina to Florida. *Ÿ. June—Aug. v. s.*

- dichotomum.* 4. *I. caulibus suffruticosis diffusis, foliis linearibus planis acutis margine scabris, cyma dichotoma.*—*Willd. sp. pl. 1. p. 1196.*

In Virginia. *h. +.* I never saw this plant either liv-ing or in a dried state.

544. GALAX. *Gen. pl. 382.*

Erythrorhiza. Mich. fl. amer. 2. p. 34.

- rotundifolia.* 1. *G. glaberrima*; foliis orbiculato-reniformibus dentatis, spica longissima.

Galax aphylla. Willd. sp. pl. 1. p. 1146.

Blandfordia cordata. Bot. rep. 343.

Solanandra cordifolia. Vent. malm. 69.

Erythrorhiza rotundifolia. Mich. fl. amer. 2. p. 36.

Icon. *Mich. fl. amer. 2. t. 36. Vent. l. c. Bot. rep. 343.*

On the side of shady hills, near rivulets, in the high mountains of Virginia and Carolina. *Ÿ. May, June. v. v.* Flowers white, in long and close spikes. In the Virginia mountains this plant is known by the name of *Carpenter's-leaf*, being used in healing all kinds of wounds and cuts.

545. LOBELIA. *Gen. pl. 1363.*

- Dortmanna.* 1. *L. foliis radicalibus linearibus recurvis fistulosis bilocula-ribus integerrimis, scapo simplici subnudo racemoso, floribus remotis pendulis.*—*Willd. sp. pl. 1. p. 938.*

Icon. *Fl. dan. 39. Engl. bot. 140.*

On Hudson's Bay. *Michaux. Ÿ. July, Aug. v. s.* Flowers light blue.

- Kalmii.* 2. *L. tenuis, erecta, simpliciuscula*; foliis radicalibus spa-thulatis, caulinis linearibus tenuissime denticulatis, floribus racemosis alternis remotis pedicellatis.—*Willd. sp. pl. 1. p. 939.*

In low sandy fields and meadows : Canada to Carolina.

♂. ☉. July, Aug. *v. v.* Flowers small, blue.

3. *L. erecta*, simplex, subpubescens ; foliis oblongis obtusiusculis, radicalibus integerrimis, caulinis superne denticulatis, racemo virgato, bracteis subulatis.—*Claytoniana*.
Mich. fl. amer. 2. p. 153.

Rapuntium foliis villosis mollibus, &c. *Gron. virg.* 135.

L. spicata. *Lam. encycl.* 3. p. 587.

L. goodenioides. *Willd. hort. berol.* 30. cum icone.

In shady woods and on grassy hills : New York to Carolina. ♀. July—Sept. *v. v.* About eighteen inches high ; flowers pale blue, small.

4. *L. erecta*, glaberrima ; foliis lato-lanceolatis serratis, spica multiflora secunda, calycis laciniis integerrimis, corollæ laciniis inferioribus ovalibus acutis.—*amœna*.
Mich. fl. amer. 2. p. 153.

On the mountains of Virginia and Carolina. ♀. July, Aug. *v. v.* Flowers of a beautiful sky-blue. From two to three feet high.

5. *L. erecta*, subramosa, subpubescens, lucida ; foliis lanceolatis glanduloso-serrulatis subcarnosis, floribus racemosis brevi-pedunculatis, calycis laciniis revolutis dentatis.—*glandulosa*.
Walt. fl. car. 218.

L. crassiuscula. *Mich. fl. amer.* 2. p. 152.

In pine-swamps : Virginia to Florida. ♀. July, Aug. *v. v.* From eight inches to a foot high ; flowers dark blue.

6. *L. erecta*, simplicissima, pubescens ; foliis oblongo-ovalibus repando-serrulatis, floribus spicatis alternis subsessilibus, germinibus hispidis, calycibus ciliatis.—*puterula*.
Mich. fl. amer. 2. p. 152.

In the range of mountains, from Virginia to Carolina. ♀. July, Aug. *v. v.* From one to two feet high ; flowers middle size, sky blue.

7. *L. erecta*, simplex, hirtella ; foliis ovato-lanceolatis subserratis, racemo folioso, calycibus hirsutis, sinibus reflexis.—*Siphilitica*.
Willd. sp. pl. 1. p. 945.

Icon. *Rob. ic.* 136. *Jacq. ic.* 3. t. 597.

In low grounds, on the banks of rivers and near springs : New York to Carolina. ♀. July, Aug. *v. v.* Flowers large, blue. This plant is possessed of great medicinal virtues ; on account of which it was introduced into Europe nearly two hundred years ago.

- cardinalis.* 8. *L. erecta*, simplex, pubescens; foliis ovato-lanceolatis acuminatis eroso-denticulatis, racemo subsecundo multifloro, genitalibus corolla longioribus.—*Willd. sp. pl.* 1. p. 944.
Icon. Bot. mag. 320. *Rob. ic.* 137. *Knorr delic.* 2. t. L. 2.
 In swamps and meadows near springs: Canada to Carolina. 24. July—Sept. *v. v.* This beautiful plant, with its bright scarlet flowers, rises to the height of from two to four feet. I have seen a white variety of it.
- fulgens.* 9. *L. erecta*, simplex, subpubescens; foliis elongato-lanceolatis attenuatis subintegerrimis, racemo multifloro, genitalibus longitudine corollæ.—*Donn. catal.*
Icon. Bot. rep. 659.
 On the Mississippi. 24. June, July. *v. v. in Hortis.*
 This species exceeds in splendour of colour and in size the preceding one.
- inflata.* 10. *L. erecta*, ramosa, hirsutissima; foliis ovatis serratis, racemis foliosis, capsulis inflatis.—*Willd. sp. pl.* 1. p. 946.
 In fields and woods, common: Canada to Carolina.
 ☉. June—Aug. *v. v.* Flowers blue, small.
- Cliffortiana.* 11. *L. glabra*, superne ramosa; foliis petiolatis ovatis crenato-dentatis, infimis suborbiculatis, racemis laxis, pedunculis elongatis.—*Willd. sp. pl.* 1. p. 946.
Icon. Plum. ic. 235. f. 2.
 In old fields: Virginia. ☉. June, July. *v. v.* Flowers very small, purple.

II. DECANDRIA.

546. GERANIUM. *Gen. pl.* 1118.

- maculatum.* 1. *G. erectum*, retrorsum pubescens; caule dichotomo, foliis oppositis 3—5-partitis incis, summis sessilibus, pedunculis elongatis bifloris, petalis obovatis.—*Willd. sp. pl.* 3. p. 705.
Icon. Cavan. diss. 4. t. 86. f. 2. *Dill. elth. t.* 132. f. 159.
 In shady woods and meadows: Canada to Carolina. 24. May—July. *v. v.* Flowers purple, large. This

- species is known in some parts of the mountains by the name of *Alum-root*, on account of the astringent taste of its roots, which are very successfully employed in curing the flux among children, which is a disease very prevalent in those countries.
2. *G. diffusum*, pubescens; foliis oppositis 5-lobis, lobis trifido-incisis, pedunculis bifloris subfasciculatis, petalis emarginatis longitudine calycis aristati, arillis villosis.—*Willd. sp. pl.* 3. p. 711.
G. lanuginosum. Jacq. hort. schœnb. 2. t. 140.
 Icon. *Cavan. diss.* 4. t. 84. f. 1. ♂ t. 124. f. 2. *Dill. elth.* t. 135. f. 162.
 In fields: Virginia to Georgia. ♂. June, July. v. v. Flowers small, white, with red veins.
3. *G. diffusum*, pubescens; foliis oppositis 5-partitis, lobis 3-fidis incisis linearibus, pedunculis bifloris elongatis, petalis emarginatis longitudine calycis aristati, arillis pilosis, pilis glandulosis.—*Willd. sp. pl.* 3. p. 712. *dissectum.*
 Icon. *Cavan. diss.* 4. t. 78. f. 2.
 In fields: New York. ☉. June, July. v. v. Flowers rose-coloured, larger than the foregoing one.
4. *G. diffusum*, hirsutum; foliis oppositis ternatis quinisque trifido-pinnatifidis, pedunculis bifloris, petalis integris calyce aristato duplo longioribus, arillis reticulatis.—*Willd. sp. pl.* 3. p. 714. *robertianum.*
 Icon. *Fl. dan.* 694. *Cavan. diss.* 4. t. 86. f. 1.
 In shady moist places, on rocks: New York to Virginia; rare. ♂. June—Aug. v. v. Flowers pale red. It is singular, that the American plant has not that heavy scent the European is so well known by, though its other characters agree exactly.

III. POLYANDRIA.

547. HALESIA. *Gen. pl.* 814.

1. *H. foliis ovatis acuminatis argute serratis, floribus dodecandris, fructu subæqualiter rhomboideo-tetraptero.*—*Willd. sp. pl.* 2. p. 849. *tetraptera.*
 Icon. *Bot. mag.* 910. *Cavan. diss.* 6. t. 186. *Catesb. car.* 1. t. 64.

- In shady woods, on the banks of rivers : Carolina. η . April, May. *v. v.* A handsome small tree ; flowers white, resembling those of Snow-drops, from which it has been called *Snow-drop Tree* or *Silver-bell Tree*.
- diptera.* 2. *H. foliis oblongo-ovatis obtuse-acuminatis membranaceis, floribus octandris, fructu subelliptico, alis alternis majoribus.*—*Willd. sp. pl.* 2. *p.* 849.
Icon. Cavan. diss. 6. *t.* 187.
 In shady forests of Georgia. η . April, May. *v. v. s. fl.* ; *v. s. in Herb. Lyon.* Flowers larger than the preceding species.
- parviflora.* 3. *H. fructu inæqualiter subtetraptero clavato floribusque parvulis.*—*Mich. fl. amer.* 2. *p.* 40.
 In Florida near Matanza. *Michaux.* η . +.

548. STYRAX. *Gen. pl.* 753.

- grandifolium.* 1. *S. foliis lato-obovatis acuminatis subtus tomentosis, racemis multifloris elongatis, pedunculis inferioribus axillaribus solitariis unifloris.*—*Willd. sp. pl.* 2. *p.* 622.
S. officinale. Walt. fl. car. 140.
S. grandiflorum. Mich. fl. amer. 2. *p.* 41.
 In woods, on the banks of rivers : Virginia to Georgia. η . June—Aug. *v. v.* A fine ornamental shrub, as the two following likewise are ; flowers white.
- pulverulentum.* 2. *S. foliis subsessilibus ovalibus s. obovatis obtusis subtus pulverulento-tomentosis, floribus axillaribus et subterno-terminalibus brevissime pedicellatis.*—*Mich. fl. amer.* 2. *p.* 41.
S. lævigatum. Bot. mag. 921.
 In woods of Virginia and Carolina. η . June—Aug. *v. v.* Resembles the foregoing one. The figure referred to represents the present species, *S. lævigatum* or the following species has to my knowledge not yet been introduced into Europe.
- glabrum.* 3. *S. foliis ovali-lanceolatis utrinque acutis glabris, pedunculis axillaribus unifloris solitariis binisve.*—*Cavan. diss.* 6. *t.* 188. *f.* 1.
S. lævigatum. Willd. sp. pl. 2. *p.* 624.
S. americanum. Lam. encycl. 1. *p.* 82.
S. læve. Walt. fl. car. 140.
 In the swamps of Virginia and Carolina. η . July, Aug. *v. v.* Not above three or four feet high ; the number of stamina is from six to ten.

549. HOPEA. *Gen. pl.* 1222.

1. *H. foliis oblongo-lanceolatis glaucis, floribus axillaribus aggregatis brevissime pedicellatis.*—*Linn. mant.* 105. *tinctoria.*
Symplocos tinctoria. Willd. sp. pl. 3. *p.* 1430.
Icon. Mich. arb. t. . . . Catesb. car. 1. *p.* 54.
 In low woods of Virginia and Carolina. *h.* April, May.
v. v. A small tree or shrub, variable in size, of which there is a variety with leaves pubescent underneath; flowers yellow, small, very sweet scented. The leaves dye a very fine yellow, and have a sweet taste; from which circumstance it is known by the inhabitants under the name of *Sweet-leaf*.

550. GORDONIA. *Gen. pl.* 1144.

1. *G. foliis lanceolato-oblongis glaberrimis nitidis coriaceis, floribus longe pedunculatis, capsulis conoideis acuminateis.*—*Willd. sp. pl.* 3. *p.* 840. *Lasianthus.*
Hypericum Lasianthus. Sp. pl. 1101.
Icon. Bot. mag. 668. *Mich. arb. t. . . . Cavan. diss.* 6. *t.* 161. *Catesb. car.* 1. *t.* 44. *Pluk. amalth. t.* 352. *f.* 3.
 In cedar-swamps, near the sea-coast: Virginia to Florida. *h.* Aug—Sept. *v. v.* A beautiful small evergreen tree; flowers white, the size of a rose.
2. *G. foliis obovato-lanceolatis subtus pubescentibus submembranaceis, floribus subsessilibus, capsulis sphaericis.*—*Willd. sp. pl.* 3. *p.* 841. *pubescent.*
G. Franklinia. Willd. sp. pl. 3. *p.* 841.
Franklinia Alatomaha. Marsh. arb. 48.
Lacathea florida. Parad. lond. 56. cum icone.
Icon. Cavan. diss. t. 162. *Mich. arb. t. . . .*
 On the banks of the Alatomaha, near Fort Barrington, Georgia. *h.* Aug. Sept. *v. v.* This elegant tree, whose large white flowers with yellow anthers have a most agreeable appearance, though a native of a very southern latitude, is able to stand a considerable northern climate.

551. STUARTIA. *Gen. pl.* 1142 & 1143.

1. *S. foliis ovatis acutis, floribus axillaribus subbinis, calycibus ovatis obtusis, petalis integris, stylis coalitis.* *virginica.*
S. Malachodendron. Willd. sp. pl. 3. *p.* 840.

Stewartia virginica. *Cavan. diss.* 5. t. 159. f. 2.

Stewartia marilandica. *Bot. rep.* 397.

Icon. *L'Herit. stirp.* 1. t. 73. *Catesb. car.* 3. t. 13.
Duham. arb. 2. t. 78.

In swamps in the lower counties of Virginia and Carolina. $\frac{1}{2}$. July—Sept. *v. v.* From five to seven feet high, very ornamental; flowers large, white. There are a number of varieties, with more or less serrated leaves, more or less pubescent, &c.

pentagyna.

2. *S. foliis ovatis acuminatis, floribus axillaribus solitariis, calycibus lanceolatis calyculatis, petalis undulato-incisis, stylis distinctis.*—*Willd. sp. pl.* 3. p. 840.

Malachodendron ovatum. *Cavan. diss.* 5. t. 158. f. 2.

Icon. *Exot. bot.* 101. *L'Herit. stirp.* 1. t. 74. *J. Miller. ic.* 3.

In the mountains of Carolina and Georgia. $\frac{1}{2}$. Aug. *v. v.* This beautiful shrub, whose large flowers are of a cream colour, deserves a place in the collection of every admirer of ornamental shrubs. It has generally been considered as a distinct genus; but I follow Dr. Smith's observations in *Exotic Botany*, considering it always unnecessary to split a small genus on slight differences, though the same differences might be sufficient reasons for establishing a distinction where the genus is numerous.

552. SIDA. *Gen. pl.* 1129.

spinosa.

1. *S. caule patulo, axillis subspinoso, foliis longe petiolatis ovato-lanceolatis obsolete cordatis dentatis, pedunculis solitariis axillaribus, stipulis setaceis pedunculo longioribus, capsulis birostratis.*—*Willd. sp. pl.* 3. p. 736.

Icon. *Cavan. diss.* 1. t. 1. f. 9. *Pluk. alm.* t. 9. f. 6.

Among rubbish and on road-sides: Pennsylvania to Carolina. $\odot$. July, Aug. *v. v.* Flowers yellow, small.

hispida.

2. *S. hispido-pilosa; foliis lanceolatis serratis, pedunculis solitariis axillaribus longitudine petiolorum, calyce exteriori filiformi.*

In sandy plains of Georgia. *Lyon. 2. v. s. in Herb. Lyon.* Flowers yellow.

rhombifolia.

3. *S. foliis oblongo-lanceolatis dentatis basi cuneiformibus integerrimis, pedunculis petiolis multo longioribus, capsulis bicornibus.* *Willd. sp. pl.* 3. p. 740.

Icon. *Cavan. diss.* 1. t. 3. f. 12. *Dill. elth.* t. 172. f. 212.

In cultivated grounds and among rubbish : Virginia to Florida. ☉. ½. June—Aug. *v. v.* Flowers yellow, small.

4. *S. foliis oblongo-cordatis acuminatis crenatis summis sessilibus, pedunculis solitariis petiolo longioribus fructiferis deflexis, capsulis inflatis muticis undulato-crispis.* *Willd. sp. pl. 3. p. 747.*

crispa.

Icon. *Cavan. diss. 1. t. 7. f. 1. Dill. elth. t. 5. f. 5.*

On the sea-coast of Carolina. ☉. July—Sept. *v. v.* Flowers white, small.

5. *S. foliis subrotundo-cordatis acuminatis dentatis tomentosis, pedunculis solitariis petiolo brevioribus, capsulis biaristatis truncatis.* *Willd. sp. pl. 3. p. 750.*

Abutilon.

Icon. *Schkuhr handb. 190.*

In cultivated grounds : Pennsylvania to Carolina. ☉. July, Aug. *v. v.* A tall plant ; flowers dark yellow.

6. *S. foliis cordatis 5-lobis glabris, lobis oblongis acuminatis dentatis, pedunculis multifloris, capsulis muticis acuminatis.* *Willd. sp. pl. 3. p. 766.*

Napæa.

Napæa lævis. Syst. veg. 750.

Napæa hermaphrodita. Sp. pl. 965.

Icon. *Cavan. diss. 5. t. 132. f. 1. Herm. lugdb. t. 23.*

In shady rocky places : Pennsylvania to Virginia ; rare. ¼. July—Sept. *v. v.* From two to four feet high ; flowers white.

7. *S. foliis 7-lobo-palmatis scabris, lobis lanceolatis inciso-dentatis, floribus dioicis corymbosis bracteatis.* *Willd. sp. pl. 3. p. 760.*

dioica.

Napæa scabra. Syst. veg. 750.

Napæa dioica. Sp. pl. 905.

Icon. *Cavan. diss. 5. t. 132. f. 2. Ehret. pict. 7 & 8.*

In stony ground, in the upper parts of Virginia. ¼. July, Aug. *v. v.* Flowers white.

8. *S. foliis inferioribus triangulo-cordatis incis, superioribus palmato-multifidis, corymbo terminali, calycibus hispidis.* *Mich. fl. amer. 2. p. 44.*

alcæoides.

In stony fields of Kentucky, Tennessee, &c. ¼. July, Aug. *v. s.* Resembles in habit *Malva Alcea.*

553. CRISTARIA. *Cavan. ic. 5. p. 10.*

1. *C. undique cano-tomentosa et pilis stellatis obsita ; foliis 3—5-fidis, laciniis incis, acutis, racemis terminalibus, caule diffuso.*

coccinea.

Malva coccinea. Fraser. catal.

On the dry prairies and extensive plains of the Missouri.
 24. Aug. Sept. *v. v.*; *v. s.* in *Herb. Lewis.* Flowers scarlet.

Caulis teres, subpedalis, ramosus, ramis diffusis, tomentosis, pilis stellatis distinctis obsitis, uti tota planta. *Folia* alterna, petiolata, palmato-3—5-partita: laciniis subpinnatifido-incisis, lobis sinibusque acutis. *Petioles* teretes, longitudine folii. *Stipulae* lineares, erectae, marcescentes. *Flores* terminales, racemosi, coccinei, diametro pollicari. *Calyx* 5-fidus, laciniis lanceolatis acutis. *Petala* 5, oblique cuneato-obcordata, subunguiculata, ad unguem fasciculato-villosa, calyce duplo longiora. *Filamenta* monadelpha, numerosa, in columnam brevem connata, superne libera, patentia. *Styli* circiter 10. *Fructus* orbiculatus.

The singularly stellated fasciculi of hair, placed on the close tomentum, and its bright scarlet flowers, make this plant particularly interesting.

554. MALVA. *Gen. pl.* 1134.

- abutiloides.* 1. *M. foliis* 5-angulari-lobatis tomentosis, pedunculis sub-4-floris bifidis axillaribus, capsulis polyspermis. *Willd. sp. pl.* 3. p. 780.
 Icon. *Jacq. hort. schænbr.* 3. t. 293. *Cavan. diss.* 2. t. 16. f. 2.
 On the sea-coast of Carolina. 24. June—Aug. *v. v.*
 Flowers large, purple.
- caroliniana.* 2. *M. foliis* 5-lobis palmatisve inciso-dentatis, pedunculis petiolo longioribus, petalis integris, fructu villosa, caule prostrato. *Willd. sp. pl.* 3. p. 784.
 Icon. *Cavan. diss.* 2. t. 15. f. 1. *Dill. elth.* t. 4. f. 4. *Schkuhr handb.* 192.
 In fields: Virginia and Carolina. ☉. July—Sept. *v. v.*
 Flowers dark red.
- rotundifolia.* 3. *M. caule* prostrato, foliis cordato-orbiculatis obsolete 5-lobis, pedunculis fructiferis declinatis. *Willd. sp. pl.* 3. p. 786.
 Icon. *Fl. dan.* 721. *Cavan. diss.* 2. t. 26. f. 3. *Schkuhr handb.* 1.
 In cultivated grounds: Pennsylvania to Virginia. 24. June—Sept. *v. v.* Flowers white, small.

555. MALOPE. *Gen. pl.* 1136.

1. *M. foliis oblongis obtusis integris crenatis supra glabris, pedunculis solitariis axillaribus.* *Willd. sp. pl.* 3. p. 799. *malacoides*

Icon. *Cavan. diss.* 2. t. 27. f. 1. *Sabb. hort.* 1. t. 50. *Rob. ic.* 189.

In Carolina. *Walter. C.* +. Though I doubt of this plant having been found in America, yet it is worth drawing the attention of the botanist to find out what *Walter* means by it.

556. HIBISCUS. *Gen. pl.* 1139.

1. *H. foliis ovatis acuminatis serratis subtrilobis sub-5-nervibus subtus incano-tomentosis, pedunculis floriferis, calycibus tomentosis, capsulis glabris.*—*Willd. sp. pl.* 3. p. 806. *Moscheutos*

H. palustris. *Walt. fl. car.* 176.

Icon. *Cavan. diss.* 3. t. 65. f. 1. *Bot. mag.* 882. sub *H. palustris.*

In swamps and salt-marshes: New York to Carolina; plentifully in the marshes round the Salt-lake, Onondago, New York. 4. Aug.—Oct. v. v. Flowers large, white, with a purple bottom, or sometimes pale purple.

2. *H. foliis lato-ovatis obtuse-serratis subtrilobis 3-nervibus subtus tomentosis, pedunculis axillaribus petiolo longioribus.*—*Willd. sp. pl.* 3. p. 808. *palustris.*

Icon. *Cavan. diss.* 3. t. 65. f. 2.

In swamps and marshes: Canada to Virginia. 4. Aug.—Oct. v. v. Flowers large, purple. This plant has been generally confounded with the former, but is very distinct.

3. *H. foliis amplis coriaceis triangulato-cordatis trilobis utrinque eximie tomentosis subtus incanis, capsulis tomentoso-hirsutissimis subtruncatis.*—*Mich. fl. amer.* 2. p. 46. *grandiflorus.*

In salt-marshes of Georgia and Florida, and on the banks of the Mississippi. 4. Aug.—Oct. v. v. Flowers very large, flesh-coloured, with a red bottom; the fructifications yellow.

4. *H. foliis ovatis acuminatis obtuse serratis utrinque incano-tomentosis, pedunculis axillaribus, calycibus tomentosis subæqualibus.*—*Willd. sp. pl.* 3. p. 807. *incanus.*

Icon. *Wendl. hort. herrenh.* 4. t. 24. *Bartr. ic. ined. in Mus. Banks.*

In Carolina. $\mathcal{U}$. Sept. +. Flowers very large, sulphur-coloured.

- esculentus.* 5. *H. foliis cordatis 5-lobis obtusiusculis dentatis, petiolis flore longioribus, calycibus exterioribus subdecaphyllis deciduis, interioribus longitudinaliter rumpentibus. Willd. sp. pl. 3. p. 827.*

Icon. *Cavan. diss.* 3. t. 61. f. 2. *Comm. hort.* 1. t. 19.

In cultivated grounds : Virginia and Carolina. ☉. June —Sept. *v. v.* Flowers yellow. It is generally cultivated by the name of *Okra* for the sake of its unripe capsules, which give a fine dish for the table.

- virginicus.* 6. *H. undique tomentosus, asper ; foliis acuminatis inæqualiter dentatis, inferioribus cordatis indivisis, superioribus cordatis oblongis trilobis, pedunculis axillaribus et racemoso-terminalibus, floribus cernuis, pistillis nuntantibus. Willd. sp. pl. 3. p. 831.*

H. clypeatus. Walt. fl. car. 177.

Icon. *Jacq. ic. rar.* t. 142. *Pluk. phyt.* t. 6. f. 4.

In salt-marshes, on the sea-coast : New Jersey to Carolina. $\mathcal{U}$. Aug. Sept. *v. v.* Flowers small, rose-coloured.

- militaris.* 7. *H. glaberrimus ; foliis 3-lobo-hastatis acuminatis serratis, corolla tubulato-campanulata, capsulis ovatis acuminatis glabris, seminibus holosericeis.—Willd. sp. pl. 3. p. 608.*

H. lævis. Scop. del. insub. 3. t. 17.

H. virginicus. Walt. fl. car. 177.

H. hastatus. Mich. fl. amer. 2. p. 45.

H. riparius. Pers. syn. 2. p. 254.

Icon. *Scop. del. insub.* 3. t. 17. *Cavan. diss.* 6. t. 198. f. 2.

On the banks of rivers in Louisiana and the western parts of Pennsylvania and Carolina. $\mathcal{U}$. Aug. Sept. *v. v.* Flowers purple, large.

- speciosus.* 8. *H. glaberrimum ; foliis palmato-5-partitis, laciniis lanceolatis acuminatis apice remote serratis, calycibus exterioribus decaphyllis, corolla patula, capsula glabra 5-gono-ovata.—Willd. sp. pl. 3. p. 822.*

H. coccineus. Walt. fl. car. 177.

Icon. *Bot. mag.* 360. *Wendl. hort. herrenh.* t. 11.

On the banks of rivers of South Carolina and Florida. $\mathcal{U}$. Aug. Sept. *v. v.* A most elegant perenn-

nial. When in high perfection, the stem will rise to more than eight feet, and the deep scarlet flowers grow to a larger size than any other Hibiscus I know.

9. *H. caule petiolisque inermibus, foliis palmato-digitatis 7-partitis, laciniis linearibus, pedunculis hispidis, calyce exteriori 1-phyllo, interiore hinc lacero, capsula hirsutissima pyramidata.*—*Willd. sp. pl.* 3. p. 825.

Manihot.

Icon. Cavan. diss. 3. t. 63. f. 2. *Dill. elth.* t. 156. f. 189.

On the banks of the Mississippi. *℥*. July—Sept. *v. v.* Flowers sulphur-yellow, with a purple bottom, very large when in rich soil.

10. *H. caule scabro, foliis asperis basi truncatis circumscriptione subrotundis, superioribus palmatis, lobis superne dilatatis crenatis, floribus subsessilibus, calycibus hispidissimis exteriori furcellato.* *Mich. fl. amer.* 2. p. 45.

scaber.

H. aculeatus. *Walt. fl. car.* 177.

Near the sea-coast, in marshes: Carolina to Florida. *℥*. July—Sept. *v. v.* Flowers very handsome and large, bright yellow with a dark purple bottom.

XVI. DIADELPHIA.

I. PENTANDRIA.

557. PETALOSTEMUM. *Pet.* 4. staminibus interjecta : utraque in tubum fissum connata. *Vexillum* nullum, ejus loco quintum petalum. *Legum.* calyce tectum, 1-spermum.

II. HEXANDRIA.

558. CORYDALIS. *Cal.* diphyllus. *Cor.* ringens. *Filam.* 2. membranacea, singula *Antheris* 3. *Caps.* siliquosa, polysperma.
559. FUMARIA. *Cal.* diphyllus. *Cor.* irregularis, basi calcarata. *Filam.* 2. singula *Antheris* 3. *Caps.* 1-locularis, evalvis, 1-sperma.

III. OCTANDRIA.

560. POLYGALA. *Cal.* 5. phyllus : foliolis duobus alæformibus, coloratis. *Caps.* obcordata, 2-locularis, 2-valvis.

IV. DECANDRIA.

* *Stamina omnia connexa.*

561. AMORPHA. *Cal.* campanulatus, 5-fidus. *Cor.* vexillum ovatum, concavum. *Alæ* *Carinaque* nullæ. *Legum.* 2-spermum, falcatum.
562. ERYTHRINA. *Cal.* 2-lobatus. *Cor.* vexillum longissimum, lanceolatum. *Legumen* torulosum.
563. LUPINUS. *Cal.* 2-labiatus. *Anth.* 5. oblongæ, 5. subrotundæ. *Legum.* coriaceum.
564. CROTALARIA. *Cor.* vexillum cordatum, magnum, carina acuminata. *Filam.* connata cum fissura dorsali. *Legum.* pedicellatum, turgidum.

** *Stigma pubescens.* (Nec priorum notæ.)

565. PHASEOLUS. *Carina* cum *Staminibus Styloque* spiraliter torta.
566. DOLICHOS. *Vexilli* basis callis 2. parallelis oblongis, *alas* subtus comprimentibus.
567. PISUM. *Cal.* laciniae foliaceae aequales. *Vexillum* plicas 2. protrudens. *Stylus* compressus, carinatus, supra villosus. *Legum.* ad suturas nudum.
568. LATHYRUS. *Cal.* laciniae superiores 2. breviores. *Stylus* planus, supra villosus, superne latior.
569. VICIA. *Cal.* superne emarginatus, 2-dentatus, inferne dentibus 3. rectis longis. *Vexillum* emarginatum. *Stigma* latere inferiore transverse barbatum.

*** *Legumen subbiloculare.* (Nec priorum.)

570. ASTRAGALUS. *Carina* obtusa. *Legum.* biloculare aut subbiloculare, sutura inferiore introflexa.
571. OXYTROPIS. *Carina* in mucronem superne desinens. *Legum.* biloculare aut subbiloculare, sutura superiore introflexa.
572. APIOS. *Cal.* campanulatus, bilabiatus. *Carina* vexillum reflectens. *Appendix*: tubulus ex centro disci, denticulatus, vaginans basin stipitis germini. *Legumen* coriaceum, biloculare, dissepimento seminibus interceptum.

**** *Legumina submonosperma.* (Nec priorum.)

573. DALEA. *Cal.* glandulosus, subsemi-5-fidus. *Alae* et *Carina* columnae staminum adnatæ. *Vexill.* breve. *Stam.* omnia connata. *Legum.* 1-spermum, calyce brevius.
574. PORALEA. *Cal.* longitudine leguminis. *Stam.* diadelpa. *Legum.* 1-spermum, subrostratum, evalve.
575. MELILOTUS. *Cal.* tubulosus, 5-dentatus. *Carina* simplex, alis et vexillo brevior. *Legum.* calyce longius, rugosum. *Flores* racemosi.
576. TRIFOLIUM. *Legum.* calyce tectum, evalve, 2—4-spermum. *Flores* subcapitati.
577. LUPINASTER. *Cal.* campanulatus, 5-dentatus, dentibus setaceis, uno sub carina. *Stigma* uncinatum. *Legum.* enode, teres, polyspermum.
578. STYLOSANTHES. *Cal.* tubulosus, longissimus, corollifer. *Germen* sub corolla. *Lomentum* 1-2-articulatum, hamatum.

579. GLYCYRRHIZA. *Cal.* 2-labiatus, basi gibbus. *Cor.* vexillum alas et carinam includens. *Legum.* ovatum, compressum, hispidum, 2—4-spermum.
580. LESPEDEZA. *Cal.* 5-partitus, laciniis subæqualibus. *Cor.* carina transverse obtusa. *Legum.* lenticulare, inerme, 1-spermum.

***** *Legumen in articulos secedens.* (Nec priorum.)

581. HEDYSARUM. *Cal.* 5-fidus. *Cor.* carina transverse obtusa. *Lomentum* pluri-articulatum : articulis 1-spermis, compressis, ut plurimum hispidis.
582. ZORNIA. *Cal.* campanulatus, 2-labiatus. *Vexillum* cordatum, revolutum. *Antheræ* alternæ oblongæ, alternæ globosæ. *Lomentum* articulatum, hispidum.
583. ÆSCHYNOMENE. *Cal.* bilabiatus. *Lomentum* compressum, sutura altera recta, altera lobata, articulis truncatis, 1-spermis.
584. SESBANIA. *Cal.* dentibus subæqualibus. *Legum.* elongatum, subcylindricum, 2-valve.

***** *Legumen uniloculare polyspermum.* (Nec priorum.)

585. GLYCINE. *Cal.* bilabiatus : dente labii inferioris longiore. *Cor.* carina apice vexillum reflectens. *Stylus* incurvus. *Legum.* oblongum, compressum.
586. GALACTIA. *Cal.* 4-dentatus, 2-bracteatus. *Petala* omnia oblonga, vexillo latiore incumbente. *Stigm.* obtusum. *Legum.* teres. *Sem.* subrotunda.
587. CLITORIA. *Cal.* tubuloso-campanulatus. *Cor.* resupinata : vexillo maximo, patente, alas obumbrante. *Legum.* lineare, longissimum, acuminatum.
588. ROBINIA. *Cal.* 4-fidus, lacinia superiore bipartita. *Vexillum* reflexo-patens, subrotundum. *Legum.* gibbum, elongatum.
589. INDIGOFERA. *Cal.* patens. *Cor.* carina utrinque calcari subulato patulo. *Legum.* lineare, parvulum, teres, subquadrangulare.
590. TEPHROSIA. *Cal.* dentibus subulatis, subæqualibus. *Stam.* monadelpha. *Legum.* compressum, subcoriaceum.
591. LOTUS. *Cal.* tubulosus. *Alæ* sursum longitudinaliter conniventes. *Filam.* cuneiformia. *Legum.* cylindricum, strictum.
592. MEDICAGO. *Carina* corollæ a vexillo deflectens. *Legum.* compressum, cochleatum.

I. PENTANDRIA.

557. PETALOSTEMUM. *Mich. fl. amer. 2. p. 48.*

Dalea. Juss. gen. pl. 392.

1. *P. spica cylindrica* pedunculata, bracteis flore longioribus, calycibus glabris, foliis trijugis lanceolatis.—*Mich. fl. amer. 2. p. 49.* *candidum.*

Dalea candida. Willd. sp. pl. 3. p. 1337.

Icon. *Mich. l. c. t. 37. f. 1.*

In Tennessee, Illinois, and on the banks of the Missouri. 24. July, Aug. *v. s. in Herb. Lewis. &c.* Flowers white.

2. *P. spica cylindrica* pedunculata, bracteis subulatis longitudine calycis, bracteolis setaceis persistentibus, calycibus glabris, foliolis lanceolatis.—*Mich. fl. amer. 2. p. 49.* *carneum.*

In pine-barrens of Georgia and Florida. 24. July, Aug. *v. s. in Herb. Engelm. &c.*

3. *P. spica cylindrica* pedunculata, bracteis calycem subæquantibus, bracteolis spathulatis deciduis, calycibus sericeis, foliis bijugis linearibus.—*Mich. fl. amer. 2. p. 50.* *violaceum.*

Dalea violacea. Willd. sp. pl. 3. p. 1337.

Icon. *Mich. l. c. t. 37. f. 2.*

In Tennessee, Illinois, and on the banks of the Missouri. 24. July—Sept. *v. v.* A beautiful plant; the close spikes are of a delicate rose-purple.

4. *P. spicis cylindricis* pedunculatis terminalibus, bracteis calyce brevioribus, calycibus villosis, foliis sub-10-jugis ellipticis retusis mucronatis. *alopecuroides.*

Dalea alopecuroides. Willd. sp. pl. 3. p. 1336.

In Georgia and Florida. 24. July, Aug. *v. s. in Herb. Engelm.* Flowers pale blue.

5. *P. capitulis squamoso-involucratis*, pedunculis paniculato-corymbosis, calycibus plumosis, foliolis linearibus muticis.—*Mich. fl. amer. 3. p. 50.* *corymbosum.*

Dalea Kuhnistera. Willd. sp. pl. 3. p. 1337.

Kuhnistera carolinensis. Lam. encycl. 3. p. 371.

Kuhnix affinis pinnata. Walt. fl. car. 103.

In pine-barrens of Carolina and Georgia. 24. June—

Aug. *v. v.* Flowers white. This singular plant appears, at first sight, to belong to the class Syngenesia, and certainly is the connecting link between that class and the present.

II. HEXANDRIA.

558. CORYDALIS. *Vent. choix de pl.* 19.

Fumaria. Gen. pl. 1154.

* *Corollis bicalcaratis. Perizomanthi.*

Cucullaria. 1. C. scapo nudo, racemo simplici secundo, nectariis divaricatis longitudine corollæ, stylo incluso, radice bulbosa.
—*Pers. syn.* 2. p. 269.

Fumaria Cucullaria. Willd. sp. pl. 3. p. 857.

Icon. Bot. mag. 1127. *Rob. ic.* 222. *Pluk. alm. t.* 90. f. 3.

On the side of shady hills, in rich vegetable mould, among rocks: Canada to Virginia. *℥.* May. *v. v.* Flowers white, with a yellow mouth. This singularly constructed flower is known among the inhabitants by the name of *Breeches-flower* or *Yellow-breeches*; and as I consider that all those species with two spurs or nectaries might form, with propriety, a good genus, I have given it the name of *Perizomanthus*.

formosa. 2. C. scapo nudo, racemo subcomposito nutante multifloro, nectariis brevissimis incurvis, stylo porrecto, laciniiis foliorum oblongis inciso-pinnatifidis, radice tuberosa.

Icon. Bot. rep. 393. *Bot. mag.* 1335. sub *Fumaria*.

In Canada, and on the highest peaks of the Virginia and Carolina mountains, in the cliffs of shady rocks. *℥.* May—July. *v. v.* Flowers a lively bright red. This elegant perennial deserves a place in every collection. The Canada plant is somewhat different in aspect from the Virginian, but not sufficiently distinct to make it a species.

tenuifolia. 3. C. scapo nudo, racemo simplici nutante paucifloro, nectariis brevissimis incurvis, stylo longe exerto, foliis tenuissime laciniatis, radice tuberosa.

On the north-west coast. *℥.* June. *v. s. in Herb.*

Lambert. specimen Pallasianum. Flowers of nearly the same shape and colour as the foregoing species.

4. *C. caule scandente, foliis cirrhosis, racemis axillaribus corymbosis cernuis, corollis monopetalis basi bigibbis.*
—*Pers. syn.* 2. p. 269.

fungosa.

Fumaria fungosa. Willd. sp. pl. 3. p. 857.

Fumaria recta. Mich. fl. amer. 2. p. 51.

In moist and shady places, in the beech-woods of Canada and Pennsylvania. ♂. June—Sept. *v. v.* A delicate twining plant; flowers pale red and in great abundance.

** *Corollis unicalcaratis.*

5. *C. caule ramoso erecto, foliis glaucis, caulinis biternatis, racemis subcorymbosis, bracteis minutis, siliquis linearibus pedunculo triplo longioribus.*—*Pers. syn.* 2. p. 269.

glauca.

Fumaria sempervirens. Willd. sp. pl. 3. p. 863.

Icon. Bot. mag. 179. *Corn. canad.* 57.

In the cliffs of rocks, in Canada, and on the Allegany mountains. ☉. ♂. June—Aug. *v. v.* Flowers very handsomely variegated with yellow, red, and green.

6. *C. caule ramoso diffuso, foliis bipinnatis, foliolis partitis lineari-lanceolatis utrinque acutis, racemis secundis, bracteis lato-lanceolatis subdenticulatis, siliquis teretibus turgidis pedunculo duplo longioribus.*—*Willd. enum.* 740.

aurea.

On shady rocks: Pennsylvania to Virginia. ☉. May—July. *v. v.* Flowers bright yellow; the leaves and the size of the flowers resemble those of the preceding species.

559. FUMARIA. *Gen. pl.* 1154.

1. *F. caule ramoso diffuso, foliis supradecompositis, foliolis cuneiformi-lanceolatis incisis.*—*Willd. sp. pl.* 3. p. 867.

officinalis.

Icon. Fl. dan. 940. *Engl. bot.* 589.

In cultivated grounds: Pennsylvania to Virginia; rare. ☉. May—Aug. *v. v.* Flowers small, red, mixed with green.

III. OCTANDRIA.

560. POLYGALA. *Gen. pl.* 1154.* *Cristatæ*. Floribus appendice penicilliformi.*incarnata*.

1. *P. caule simpliciusculo erecto, foliis sparsis subulatis, spicis ovali-oblongis, corollis tubo gracili elongato.*—*Willd. sp. pl.* 3. *p.* 871.

In low sandy fields and on the edge of rivulets : Jersey to Carolina. ☉. June, July. *v. v.* A delicate little plant ; flowers of a bright flesh-colour.

rubella.

2. *P. pubescens ; caule simplici erecto, foliis angusto-lanceolatis acutis, racemo terminali, bracteis subulatis solitariis caducis, alis calycinis nervoso-venosis truncato-rotundatis corolla longioribus.*

P. rubella. Willd. sp. pl. 3. *p.* 875 ?

In woods and on dry shady hills : Pennsylvania to Georgia. ♀. June, July. *v. v.* Flowers pale red. This species approaches near to *P. vulgaris*. Whether Willdenow's plant is the same or not, I am not able to determine ; but I strongly suspect he had but an imperfect specimen, in which the very minute bractæ had disappeared. If his specimen has come from Dr. Muhlenberg, it certainly is the same plant.

paucifolia.

3. *P. pumila, grandiflora ; caulibus simplicissimis erectis inferne nudis, foliis ovatis acutis glabris, floribus terminalibus subternis.*—*Willd. sp. pl.* 3. *p.* 880.

In sphagnous swamps and bogs : Pennsylvania to Virginia ; principally on the mountains. ♀. May—Aug. *v. v.* Not above three or four inches high ; flowers the largest of those mentioned here, about the size of *P. myrtifolia*, of a fine pale red colour.

** *Imberbes*.*uniflora*.

4. *P. pumila ; caulibus simplicissimis erectis inferne nudiusculis, foliis paucis lato-ovatis in petiolum angustatis, floribus solitariis sparsis pedicellatis nutantibus.*—*Michx. fl. amer.* 2. *p.* 53.

On the banks of lake Ontario. *Michaux.* ♀. +.

Senega.

5. *P. caulibus erectis simplicissimis foliosis, foliis alternis lanceolatis, spica terminali filiformi, floribus alternis.*—*Willd. sp. pl.* 3. *p.* 894.

Icon. *Bot. mag.* 1051. *Mill. dict.* 3. t. 5. *Amœn. acad.* 2. t. 2.

α. P. foliis lanceolatis, vel ovalibus, spica confertiuscula, floribus albidis subsessilibus.—*Mich. fl. amer.* 2. p. 53. albida.

β. P. glabella vel pubescens; foliis lineari-lanceolatis, spica laxiuscula alterniflora, floribus roseis.—*Mich. fl. amer.* 2. p. 53. rosea.

On the side of hills and in dry woods: α. Canada and throughout the Allegany mountains. β. in Carolina and Georgia. *fl.* June--Aug. *v. v.* This is the famous *Seneca Snake-root*, formerly so celebrated for the bite of rattle-snakes; but other more efficacious remedies have supplanted it. Vid. *Prenanthes* and *Liatris*.

6. P. caule simplici vel ramoso; foliis radicalibus infimisque spathulatis, cæteris lanceolatis, spica cylindraceo capitata confertiflora pedunculata.—*Willd. sp. pl.* 3. p. 894. lutea.

Icon. *Pluk. amalth.* t. 438. f. 6.

α. P. caule subvirgatum elatiore. elatior.

β. P. subcaulis, foliis omnibus spathulatis, capitulo majore. nana.

In wet woods and bogs: New Jersey to Florida. β. in low meadows of Carolina. ☉. ♂. July, Aug. *v. v.* A fine species; flowers of a golden yellow; the var. β. does not grow above three or four inches high.

7. P. caule erecto simplicissimo, foliis lineari-lanceolatis obtusiusculis, capitulo terminali globoso-capitato.—*Willd. sp. pl.* 3. p. 895. viridescens.

In dry woods: Pennsylvania to Carolina. ☉. July, Aug. *v. v.* Flowers greenish-white, with some red. In general habit it resembles *P. incarnata*.

8. P. caule setaceo subaphyllo simplici, summitate subramoso, foliis parvis setaceis sparsis, floribus minutis dense spicatis.—*Mich. fl. amer.* 2. p. 52. setacea.

In Carolina and Georgia. ☉. July, Aug. *v. s.* in *Herb. Lyon*.

9. P. caule erecto summitate corymboso-ramoso, foliis alternis linearibus, spicis capitatis, pedunculis squarrosis.—*Willd. sp. pl.* 3. p. 896. sanguinea.

Icon. *Pluk. mant.* t. 438. f. 5.

In woods on the side of hills: New England to Carolina. ☉. July, Aug. *v. v.* Flowers rose-coloured.

10. P. caule a basi ramoso, foliis alternis ellipticis obtusis basi attenuatis, spicis terminalibus oblongis, floribus alter-

nis pedunculatis, spicis inferioribus depressis apetalis.
—*Walt. fl. car.* 179.

In the pine-barrens of Carolina. ☉. July, Aug. *v. s.*
Calyx greenish-white, with pale yellow petals.

verticillata. 11. *P. caule erecto ramoso, foliis verticillatis linearibus, spicis setaceis pedunculatis, floribus distincte alternis approximatis.*—*Willd. sp. pl.* 3. *p.* 897.

Icon. *Pluk. mant. t.* 438. *f.* 4.

On the sides of dry hills and in pine-woods : New York to Carolina. ☉. June—Aug. *v. v.* Flowers very small, white, or sometimes pale red.

cruciata. 12. *P. caule erecto ramoso alato-anguloso, foliis quaternis lineari-lanceolatis, capitulis spicatis sessilibus.*—*Willd. sp. pl.* 3. *p.* 897.

In wet places, on the edge of bogs and rivulets ; Canada to Carolina. ☉. July—Sept. *v. v.* Flowers red mixed with green.

IV. DECANDRIA.

561. AMORPHA. *Gen. pl.* 1170.

fruticosa. 1. *A. glabra, subarborescens ; foliis petiolatis, spicis aggregatis elongatis, calycibus nudiusculis pedicellatis, dentibus 4. obtusis, unico acuminato, leguminibus oligospermis.*—*Willd. sp. pl.* 3. *p.* 970.

Icon. *Schmidt arb.* 30. *Schkuhr handb.* 197. *Hort. cliff. t.* 19. *Mill. ic.* 27. *Duham. arb. t.* 46.

vulgaris. *α. A. foliis mucronatis, calycibus glabris.*

emarginata. *β. A. foliis emarginatis, calycibus canis.*

angustifolia. *γ. A. foliis lineari-ellipticis basi subacutis.*

On the banks of rivers : Carolina and Florida. ♀. June, July. *v. v.* Var. *γ. v. s. in Herb. Lewis.* A shrub from nine to twelve feet high. Flowers of a very fine blue, in close and long spikes. It is generally known by the name of *Wild Indigo*. The leaves, as in all the following species, are beset with glands, which are transparent.

microphylla. 2. *A. glabriuscula, pumila ; foliis brevissime petiolatis utrinque obtusis, spicis solitariis abbreviatis, calycibus nudiusculis pedicellatis, dentibus omnibus acuminatis, leguminibus monospermis.*

A. nana. *Fraser. catal.* 1813.

On the banks of the Missouri. $\frac{1}{2}$. July, Aug. *v. s.*
in Herb. Lewis. From one to two feet high; flowers
purple and fragrant. A very elegant little shrub.

3. *A. humilis*, frutescens; foliis brevissime petiolatis sine *pubescens*.
mucrone utrinque obtusis glabriusculis, spicis panicu-
latis elongatis pubescentibus, calycibus subsessilibus,
dentibus omnibus acuminatis.—*Willd. sp. pl.* 3.
p. 970.

A. herbacea. *Walt. fl. car.* 179.

A. pumila. *Mich. fl. amer.* 2. *p.* 64.

In sandy dry fields: Carolina and Georgia. $\frac{1}{2}$. June,
July. *v. v.* From two to three feet high; flowers a
fine blue, smaller than No. 1.

4. *A. undique cano-tomentosa*, humilis; foliolis approxi- *canescens*.
matis subsessilibus ovato-ellipticis acutis mucronatis,
spicis paniculatis cano-tomentosis, calycibus sessilibus,
dentibus omnibus acuminatis.

On the banks of the Missouri and Mississippi. $\frac{1}{2}$. July,
Aug. *v. v.* Resembles the foregoing one very much;
flowers of a more beautiful blue.

562. ERYTHRINA. *Gen. pl.* 1163.

1. *E. pumila*; foliis ternatis rhombeis glabris, spicis lon- *herbacea*.
gissimis, caule herbaceo inermi.—*Willd. sp. pl.* 3.
p. 912.

Icon. Bot. mag. 877. *Trew. ehret. t.* 58. *Catesb. car.* 49.
Dill. elth. t. 90. *f.* 106.

In sandy woods and fields: Carolina and Florida. $\frac{1}{2}$.
June, July. *v. v.* A beautiful perennial; flowers
scarlet.

563. LUPINUS. *Gen. pl.* 1176.

1. *L. perennis*, repens; caule foliisque glabriusculis, foliis *perennis*.
digitatis: foliolis (8-9) lanceolatis obtusiusculis, caly-
cibus alternis inappendiculatis: labio superiore emar-
ginato; inferiore integro.—*Willd. sp. pl.* 3. *p.* 1022.

Icon. Bot. mag. 202. *Mill. dict. t.* 170. *f.* 1.

On dry hills, in gravelly soil: Canada to Florida. $\frac{1}{2}$.
May—July. *v. v.* Flowers blue, purple, and some-
times white.

2. *L. perennis*; caule foliisque hirsutis, foliis digitatis: *nootkatensis*.
foliolis (7-8) lanceolatis obtusis, calycibus verticillatis

inappendiculatis : labio superiore emarginato, inferiore integro.—*Donn. catal. hort. cantab.*

Icon. *Bot. mag.* 1311.

On the north-west coast. *Menzies*. 24. June, July. *v. s. in Herb. Lambert*. This stately perennial approaches near to the foregoing one in its general character, but the flowers are larger and beautifully variegated. In the Herbarium of A. B. Lambert, Esq. is a specimen from Professor Rudolph, of St. Petersburg, collected in Unalashka, under the name of *L. regius*, decidedly the same with the present species, the name of which sufficiently shows the grandeur of this plant in its native state.

sericeus.

3. *L. perennis* ; caule foliisque sericeo-tomentosis, foliis digitatis : foliolis (7–8) lanceolatis acutis utrinque sericeis, calycibus subverticillatis inappendiculatis : labio superiore inciso ; inferiore integro.

On the banks of the Kooskoosky. *M. Lewis*. 24. July. *v. s. in Herb. Lewis*. Flowers pale purple, or rose-coloured.

argenteus.

4. *L. perennis* ; foliis digitatis : foliolis (5–7) lineari-lanceolatis acutis supra glabris subtus argenteo-sericeis, calycibus alternis inappendiculatis : labio superiore obtuso ; inferiore integro.

On the banks of the Kooskoosky. *M. Lewis*. 24. June, July. *v. s. in Herb. Lambert*. Flowers small, cream-coloured.

pusillus.

5. *L. biennis*, *pusillus*, undique pilis longis albidis hirsutissimus ; foliis digitatis : foliolis (7) lineari-ellipticis supra glabris, calycibus alternis inappendiculatis : labio superiore bipartito ; inferiore integro, leguminibus subdispermis.

On the banks of the Missouri. ♂. June. *v. s. in Herb. Lewis*. Flowers small, a fine blue mixed with some red.

villosus.

6. *L. perennis*, *villosissimus* ; foliis simplicibus oblongis, spicis elongatis, calycibus alternis inappendiculatis : labio superiore bifido ; inferiore integro elongato.—*Mich. fl. amer.* 2. p. 56.

L. pilosus. *Walt. fl. car.* 180.

In dry sandy fields : Carolina and Florida. 24. June—Aug. *v. v.* A beautiful perennial, but very shy of cultivation ; flowers very variable in colour : white, rose red, and purple.

564. CROTALARIA. *Gen. pl.* 1172.

1. *C. hirsuta*, erecta, ramosa ; foliis simplicibus oblongo-lanceolatis, stipulis lanceolatis acuminatis decurrentibus, racemis oppositifoliis subtrifloris, corollis calyce minoribus.—*Willd. sp. pl.* 3. p. 972. *sagittalis.*
C. sagittalis β . oblonga. *Mich. fl. amer.* 2. p. 55.
 In pine-barrens : Virginia to Georgia. ☉. July. *v. v.*
 Flowers, as all the following, yellow.
2. *C. hirsuta*, erecta, ramosa ; foliis simplicibus lineari-lanceolatis, stipulis superioribus decurrentibus brevissime bidentatis, racemis oppositifoliis, corollis calyce minoribus.—*Willd. sp. pl.* 3. p. 973. *parviflora.*
C. sagittalis α . linearis. *Mich. fl. amer.* 2. p. 55.
 In sandy fields : New York to Carolina. ☉. June, July. *v. v.*
3. *C. hirsuta*, diffusa, ramosa ; foliis simplicibus petiolatis subrotundo-ovalibus, stipulis summis vix decurrentibus brevissimis, racemis oppositifoliis elongatis, corollis calycem æquantibus. *ovalis.*
C. sagittalis γ . ovalis. *Mich. fl. amer.* 2. p. 55.
Anonymos rotundifolia. *Walt. fl. car.* 181.
 In pine-barrens of Carolina and Georgia. ☉. June, July. *v. s. in Herb. Enslen.*
4. *C. glabra*, erecta, simplex ; foliis lanceolato-oblongis, stipulis lanceolatis acuminatis decurrentibus, racemis oppositifoliis subtrifloris. *lævigata.*
C. sagittalis glabra, longioribus foliis, americana. *Pluk. alm.* 122. t. 277. f. 2.
 In pine-woods of Virginia and Carolina. ☉. July. *v. v.*

565. PHASEOLUS. *Gen. pl.* 1180.

1. *P. volubilis*, totus pubescens ; foliolis lato-ovatis impari subcordato, racemis geminatis folio longioribus, pedunculis geminatis, bracteis obsoletis, leguminibus pendulis.—*Willd. sp. pl.* 3. p. 1031. *Walt. fl. car.* 182. *perennis.*
P. paniculata. *Mich. fl. amer.* 2. p. 60.
Dolichos polystachyos. *Willd. sp. pl.* 3. p. 1049.
 On the side of fertile hills, near the banks of rivers, among rocks : Pennsylvania to Carolina. ☿. July, Aug. *v. v.* ; *v. s. in Herb. Gronov.* Flowers purple, in great abundance, which gives this plant a very ornamental appearance.

vexillatus.

2. *P. volubilis*, pubescens; pedunculis petiolo crassioribus capitatis, alis subfalcatis difformibus, leguminibus linearibus strictis. *Willd. sp. pl.* 3. p. 1032.

Icon. *Jacq. hort. t.* 102. *Dill. elth. t.* 234. f. 302.

On the sea-coast of Carolina and Georgia. ☉. July, Aug. *v. v.* Flowers large, purple.

helvolus.

3. *P. volubilis*, perennis, hirtellus; foliolis oblongo-ovalibus subdeltoideis obtusiusculis, capitulis longe pedunculatis, vexillis brevibus, alis expansis maximis, leguminibus tereti-linearibus.—*Willd. sp. pl.* 3. p. 1032.

Glycine umbellata. Willd. sp. pl. 3. p. 1058.

Icon. *Dill. elth. t.* 233. f. 300.

In dry gravelly soil, in old fields and pastures: New York to Carolina. *v. v.* Flowers of a rose-colour, carina purple.

trilobus.

4. *P. volubilis*, pubescens; foliolis inferioribus rhomboideo-ovalibus, superioribus trilobatis, capitulis longe pedunculatis, leguminibus linearibus. *Mich. fl. amer.* 2. p. 60.

P. vexillatus. Walt. fl. car. 182.

Glycine angulosa. Willd. sp. pl. 3. p. 1056.

On banks of rivers in gravelly soil: Pennsylvania to Carolina. ☉. June, July. *v. v.* Flowers resembling the foregoing species.

566. DOLICHOS. *Gen. pl.* 1181.

luteolus.

1. *D. volubilis*, pubescens; foliolis ovatis acuminatis, pedunculis folio longioribus, spicis brevibus subcapitatis, vexillo lato reflexo, alis rhomboideis.—*Willd. sp. pl.* 3. p. 1038.

Icon. *Jacq. hort. t.* 90.

In rice fields of Georgia. *Enslen.* ☉. June, July. *v. v.* Flowers bright yellow.

567. PISUM. *Gen. pl.* 1184.

maritimum.

1. *P. petiolis supra planiusculis, caule angulato, stipulis sagittatis, pedunculis multifloris. Willd. sp. pl.* 3. p. 1071.

Icon. *Fl. dan.* 338. *Engl. bot.* 1046.

In rocky and sandy situations, near the sea-coast: Canada to New York. ♀. July, Aug. *v. v.* Flowers large, handsome, purple and blue.

568. LATHYRUS. *Gen. pl.* 1186.

1. L. caule alato, stipulis semisagittatis lanceolatis, foliolis sex lineari-lanceolatis acutis, pedunculis sub-3-floris.—*Willd. sp. pl.* 3. p. 1090.
palustris
 Icon. *Fl. dan.* 399. *Engl. bot.* 169.
 In low grounds of Canada. *Michaux.* 24. July, Aug. v. s. Flowers pale purple, of midd'le size.
2. L. caule nudo tetragono, stipulis semisagittatis lanceolatis acuminatis, foliolis quatuor oblongo-lanceolatis acutis mucronatis venoso-reticulatis, pedunculis folio longioribus sub-3-floris.—*Willd. sp. pl.* 3. p. 1091.
myrtifolius.
 In salt-marshes: Pennsylvania and New York; particularly plenty about Lake Onondago. 24. July, Aug. v. v. Resembles the foregoing species; flowers smaller, purple and rose-coloured.
3. L. caule nudo tetragono, stipulis semisagittatis ovatis acuminatis, foliolis numerosis subalternis ovatis obtusis mucronatis venosis, pedunculis folio brevioribus 5—10-floris.—*Willd. sp. pl.* 3. p. 1092.
venosus.
 In low meadows: Pennsylvania. 24. July, Aug. v. s. Flowers purple.
4. L. caule tetragono, stipulis semisagittatis linearibus, foliis 5-jugis: foliolis oblongo-ellipticis mucronatis, pedunculis 3—4-floris.
decaphyllus.
 On the banks of the Missouri. 24. v. s. Flowers purple, large; pods large.

569. VICIA. *Gen. pl.* 1187.

1. V. pedunculis solitariis unifloris capillaribus, stipulis semisagittatis integerrimis, foliolis subsenis lineari-lanceolatis obtusiusculis, leguminibus parvis oblongis glabris.—*Willd. sp. pl.* 3. p. 1106.
pusilla.
 In low grassy grounds: Pennsylvania to Virginia. ☉. July, Aug. v. v. Flowers exceeding small, white, with a tinge of red.
2. V. floribus binis subsessilibus, stipulis dentatis maculatis, foliolis oblongo-ovatis retusis mucronatis, leguminibus erectis subtereti-linearibus glabris.—*Willd. sp. pl.* 3. p. 1104? *Walt. fl. car.* 183.
sativa.
 In Lower Carolina. ☉. July, Aug. v. s. Flowers purplish-blue.
3. V. pedunculis submultifloris folio brevioribus, stipulis
americana.

semisagittatis dentatis, foliolis 8—12. elliptico-lanceolatis obtusis glabris.—*Willd. sp. pl.* 3. p. 1096.

In Pennsylvania. *Muhlenberg. V. +*. Flowers the size of *V. sylvatica*, to which it bears a great resemblance.

Cracca.

4. *V. spicis multifloris retrorsum imbricatis folio longioribus, stipulis semisagittatis lineari-subulatis integerrimis, foliolis numerosis lanceolato-oblongis pubescentibus.*—*Willd. sp. pl.* 3. p. 1098.

Icon. *Fl. dan.* 804. *Mart. fl. rust.* 117.

In woods and meadows: Canada to Virginia. *V. July*, Aug. *v. v.* Flowers pale blue.

caroliniana.

5. *V. pedunculis multifloris, floribus distantibus, stipulis ovato-lanceolatis integerrimis, foliolis 8—10. elliptico-lanceolatis glabriusculis, caule glabro.*—*Willd. sp. pl.* 3. p. 1094. *Walt. fl. car.* 182.

V. parviflora. Mich. fl. amer. 2. p. 69.

In the mountains from Pennsylvania to Carolina. *V. July*, Aug. *v. v.* Resembles the foregoing species; but the flowers are white, with a vexillum black on the tip, and a great deal smaller.

570. ASTRAGALUS. *Gen. pl.* 1208.

carolinianus.

1. *A. caulescens, erectus; foliolis (41) oblongis subtus pubescentibus, spicis pedunculatis, bracteis lanceolatis pedunculi longitudine, leguminibus ovatis tumidis rostratis.* *Willd. sp. pl.* 3. p. 1273.

Icon. *Dill. elth. t.* 39. f. 45.

In the mountains of Virginia and Carolina. *V. June*, July. *v. v.* Flowers pale yellow.

canadensis.

2. *A. caulescens, diffusus; foliolis (21) utrinque glabris, leguminibus subcylindricis mucronatis.*—*Willd. sp. pl.* 3. p. 1274.

Icon. *Dodart. mem. t.* 65. *Rob. ic.* 314.

In the mountains: Canada to Carolina. *V. July*, Aug. *v. v.* Flowers yellow.

glaber.

3. *A. caulescens, glaber; foliolis lanceolato-oblongis subciliatis, spicis longe pedunculatis, floribus laxiusculis, leguminibus distantibus incurvis teretibus glabris.*—*Mich. fl. amer.* 3. p. 66.

In the sands of Georgia. *Michaux. V. +*. Flowers white.

alpinus.

4. *A. caulescens, procumbens; floribus pendulis racemosis,*

leguminibus utrinque acutis pilosis. *Willd. sp. pl.* 3. p. 1297.

Icon. *Fl. dan.* 51. *Pall. astrag. t.* 32.

In Labrador. *Colmaster.* 4. July, Aug. v. s. in *Herb. Dickson.* Flowers pale purple.

5. *A. caulescens*, procumbens; foliolis ovatis pubescentibus, spicis pedunculatis, leguminibus secundis rectis utrinque acuminatis pendulis.—*Mich. fl. amer.* 2. p. 67.

secundus.

In the north of Canada. *Michaux.* Labrador. *Colmaster.* 4. July, Aug. v. s. Flowers dark purple.

6. *A. caulescens*, glaber; foliolis linearibus alternis, spicis pedunculatis folio longioribus, bracteis minutis, leguminibus subteretibus rostratis.

tenellus.

On the banks of the Missouri. *M. Lewis.* 4. Aug. v. s. in *Herb. Lewis.* Flowers small, yellowish-white.

7. *A. subacaulis*, pilosissimus; foliolis ovalibus supra glabris, pedunculis folia subæquantibus, spicis paucifloris, leguminibus incano-villosissimis assurgentibus oblongis.—*Mich. fl. amer.* 2. p. 67.

villosus.

In sandy pine-woods of Georgia. 4. July, Aug. v. s. in *Herb. Enslen.*

571. OXYTROPIS. *Decand. astrag. p.* 24.

1. *O. acaulis*; foliolis obovato-lanceolatis sericeo-argenteis, scapis folia æquantibus, floribus capitatis, bracteis lanceolatis longitudine calycis sericei.—*Pers. syn.* 2. p. 331.

argentata.

Astragalus argentatus. *Willd. sp. pl.* 3. p. 1310.

Icon. *Pall. astrag. t.* 43.

On the banks of Clarck's river. *M. Lewis.* 4. July. v. s. in *Herb. Lewis.*

572. APIOS.

Glycine. Gen. pl. 1182.

1. *A. volubilis*, glabra; radice tuberosa, foliis impari-pinnatis: foliolis 5—7. ovato-lanceolatis superne angustatis, spicis confertis folio brevioribus.

tuberosa.

Glycine Apios. *Willd. sp. pl.* 3. p. 1067.

Icon. *Bot. mag.* 1198. *Schkuhr handb.* 198. *Rob. ic.* 317.

In hedges and on mountain meadows: Pennsylvania to Carolina. 4. July. v. v. Flowers dark brown, sweet-scented; roots eatable, growing sometimes to an enormously large size.

- frutescens.* 2. *A. volubilis* ; foliis impari-pinnatis novenis ovatis pubescentibus, racemis terminalibus bracteatis, leguminibus coriaceis.
Glycine frutescens. Willd. sp. pl. 3. p. 1067.
Anonymos frutescens. Walt. fl. car. 186.
 In swamps of Virginia, Carolina, and Illinois. ♀. June, July. *v. v.* Flowers purplish-blue. It is a fine ornamental plant.
573. DALEA. *Hort. cliff. p. 363. Mich. fl. amer. 3. p. 56.*
- Cliffortiana.* 1. *D. spicis oblongis confertis pedunculatis terminalibus sericeis, bracteis calycis longitudine, foliis subsexjugis lineari-cuneatis retusis apice subdentatis.—Willd. sp. pl. 3. p. 1336.*
Psoralea Dalea. Sp. pl. 1076.
Icon. Hort. cliffort. t. 22.
 In Georgia and Florida. ☉. *v. v. in Hortis.* Flowers blue.
- alopecuroides.* 2. *D. spicis cylindricis pedunculatis terminalibus sericeis confertis, bracteis calyce brevioribus, foliis 10—12-jugis ellipticis retusis mucronatis. Willd. sp. pl. 3. p. 1336.*
D. Linnæi. Mich. fl. amer. 2. p. 57. t. 38.
 On the banks of the Mississippi. ☉. July, Aug. *v. v.* Flowers pale blue.
- pedunculata.* 3. *D. glabriuscula* ; spicis oblongis axillaribus subconfertis brevibus, pedunculis folio triplo longioribus, bracteis minutis longitudine pedicellorum, dentibus calycis subulatis, foliis subsexjugis linearibus acutis mucronatis.
 On the banks of the Mississippi. *Enslen. ☉. July, Aug. v. s. in Herb. Enslen.* Flowers rose-coloured.
- parviflora.* 4. *D. cano-pubescentis* ; spicis filiformibus elongatis laxifloris axillaribus, pedunculis folio duplo longioribus, bracteis minutis, calycis tomentosi dentibus acutis brevibus, foliis sub-5-jugis linearibus obtusis.
 On the banks of the Missouri. ☉. July, Aug. *v. s.* Flowers small, white.

Boralea esculenta.

574. PSORALEA. *Gen. pl.* 1210.

1. *P. tota canescens*; foliis breviter petiolatis trifoliatis, spicis laxifloris, floribus pedicellatis, calycibus villosissimis. *Mich. fl. amer.* 2. p. 57. *canescens.*
 In barren sandy fields of Carolina and Georgia. July. *v. s.* Resembles in appearance *Cytisus Cajan*.
2. *P. parce pubescens*; foliis ternatis: foliolis lanceolatis, spicis oblongis, bracteis lato-cordatis longissime acuminatis, leguminibus rotundatis nervoso-rugosissimis. — *Mich. fl. amer.* 2. p. 58. *melilotoides.*
Melilotus flore violaceo, odore remisso. *Clayt. n.* 103.
Trifolium psoraloides. *Walt. fl. car.* 184.
 In pine-barrens: Carolina to Florida. *¶*. June—Aug. *v. s.* in *Herb. Leconte*. Flowers blue.
3. *P. pubescens, ramosissima*; foliis ternatis: foliolis ellipticis utrinque rugoso-punctatis, pedunculis axillari-bus folio longioribus sub-3-floris. *tenuiflora.*
 On the banks of the Missouri. *M. Lewis.* *¶*. Sept. *v. s.* in *Herb. Lewis*. Flowers very small, pale blue.
4. *P. pubescens*; foliis ternatis: foliolis elongato-lanceola-tis, petiolis crassis, spicis axillaribus folio vix longiori-bus densifloris, floribus pedicellatis, bracteis pedicello vix longioribus, dentibus calycis coloratis. *lanceolata.*
 On the banks of the Missouri. *¶*. July, Aug. *v. s.* Flowers bright blue, small.
5. *P. undique argenteo-tomentosa*; foliis ternatis: foliolis lanceolato-oblongis, spicis terminalibus interruptis, bracteis ovatis acuminatis, floribus suboppositis ses-silibus. *argophylla.*
 On the banks of the Missouri. *¶*. *v. s.* Flowers purple: the silvery tomentum gives this plant a par-ticularly handsome appearance.
6. *P. undique villosa*; foliis digitato-quinatis: foliolis lan-ceolatis inæqualibus planis integerrimis, spicis axillari-bus densifloris, laciniis calycis lanceolatis corolla paulo brevioribus, leguminibus ensiformi-rostratis, radice fusiformi. *esculenta.*
 On the banks of the Missouri. *M. Lewis.* *¶*. June, July. *v. s.* in *Herb. Lewis*. Flowers pale blue.
 Tota planta pilis longis albidis tecta. *Radix* fusiformis, crassa, exsiccatione farinosa. *Caulis* erectus, subra-mosus, teres, sulcatus, pedalis et ultra. *Folia* alterna,

petiolata, digitato-quinata. *Foliola* subpetiolata, lanceolata, utrinque acuta, integerrima, plana, supra glabra, punctis vix conspicuis confertissime adspersa, subtus pilosa, uncialia. *Petoli* communes teretes, folio longiores. *Stipulae* persistentes, ad basin petiolorum oppositæ, oblongo-lanceolatæ, acutæ. *Spicae* axillares, pedunculatæ, densifloræ, bracteatae, foliis longiores. *Bractea* lato-ovatæ, acuminatæ, calyce breviores. *Flores* sessiles, cærulei, magnitudine et figura *Viciae sativæ*. *Calyx* hirsutissimus, 5-fidus s. profunde 5-dentatus: dentibus lineari-lanceolatis: 2. lateralibus subfalcatis: inferus latior. *Corolla*: *Vexillum* obovatum, inferne utrinque glandula instructum, calyce paulo longiore. *Alae* semi-ovatæ, vexillo breviores. *Carina* oblonga. *Legumen* calyce tectum, monospermum, hirsutum, rostro ensiformi, glabro, calyce longiore instructum. *Semen* reniforme, nigrum.

It approaches very near to *P. pentaphylla* Willd. *sp. pl.* 3. p. 1352. which is fully described and figured by B. Jussieu in *Act. par.* 1744. p. 381. t. 17. But not only the botanical difference, but the medical use made of the Mexican plant, proves their distinctness. The present plant produces the famous *Bread-root* of the American Western Indians, on which they partly subsist in winter. They collect them in large quantities, and if for present use, they roast them in the ashes, when they give a food similar to yams: if intended for winter use, they are carefully dried, and preserved in a dry place in their huts. When wanted for use, they are mashed between two stones, mixed with some water, and baked in cakes over the coals. It is a wholesome and nourishing food, and, according to Mr. Lewis's observation, agreeable to most constitutions; which, he observed, was not the case with the rest of the roots collected by those Indians for food. This root has been frequently found by travellers in the canoes of the Indians, but the plant which produces it has not been known until lately.

Lupinellus.

7. *P. foliis* quino-digitatis: foliolis angustissime linearibus, spica pauciflora, leguminibus ovoideis, uncinato-mucronatis, nervoso-rugosis.—*Mich. fl. amer.* 2. p. 58.

In barren fields of Carolina. *U. v. s. in Herb. Lyon.* Flowers very small. The leaves of the whole genus are covered with resinous dots.

575. MELILOTUS. *Tournef. inst. p. 407. t. 229.*

1. *M. caule erecto, foliis obovatis serratis, spicis axillari-
bus paniculatis, leguminibus dispermis rugosis acutis.*
Trifolium officinale. Willd. sp. pl. 3. p. 1355.
Icon. Fl. dan. 934. Mart. fl. rust. t. 72.
On the gravelly shores of rivers: Pennsylvania to Virgi-
nia. ♂. ☉. June, July. *v. v.* Flowers white.

officinalis.

576. TRIFOLIUM. *Gen. pl. 1211.*

1. *T. procumbens, pubescens; foliis obovatis, stipulis
oblique cordatis, capitulis multifloris, floribus pedi-
cellatis demum omnibus reflexis, leguminibus sub-3-
spermis.—Willd. sp. pl. 3. p. 1357.*
On dry hills and among rocks: Pennsylvania, Kentucky,
and the Carolina mountains. ♀. June, July. *v. v.*
Flowers of a fine purplish-red.
2. *T. repens; foliis ovato-oblongis emarginatis serrula-
tis, capitulis umbellaribus, calycinis dentibus subæ-
qualibus, leguminibus tetraspermis.—Willd. sp. pl. 3.
p. 1359.*

reflexum.

repens.

Icon. Fl. dan. 990. Mart. fl. rust. 34.

In fields, pastures, and cleared lands on the mountains.
♀. May—Sept. *v. v.* This species, generally known
by the name of *White Clover*, makes its appearance
wherever lands are cleared of timber, in the most re-
mote parts of the country; I have seen it springing
forward on new plantations, from sixty to one hun-
dred miles distant from any place where it naturally
was found. A number of plants of this description
have struck my attention, among which are *Verbascum
Thapsus* and *Senecio hieracifolius* in particular,
whose dissemination is really problematical.

3. *T. erectum, pusillum; foliis rotundato-obcordatis gla-
bris margine ciliatis crenulatis, stipulis bifidis, capitu-
lis umbellaribus pedunculatis reflexis paucifloris, co-
rollis vix exsertis, leguminibus subtrispermis.—Mich.
fl. amer. 2. p. 58.*

T. arvense. Walt. fl. car. 183.

T. comosum. Willd. sp. pl. 3. p. 1360?

In sandy fields, near Charlestown, South Carolina. ♀.
June—Aug. *v. s.* Flowers small, white. In *Lam.
encycl. 8. p. 2.* it has been suggested, that *T. com-*

carolinianum.

sum of Linnæus and the present plant are the same, and I believe with very good reason, as I suppose the little difference between them may have been occasioned by culture.

microcephalum.

4. *T. adscendens*, pubescens; foliis obovatis emarginatis denticulatis, stipulis ovatis acum'natis, capitulis pusillis pedunculatis paucifloris, floribus sessilibus, involucris ovatis aristatis, calycibus aristatis longitudine corollæ.

On the banks of Clarck's river. *M. Lewis.* 2. July. *v. s. in Herb. Lewis.* Flowers exceeding small, pale purple.

pratense.

5. *T. adscendens*, glabriusculum; foliis ovalibus subintegerrimis, stipulis aristatis, spicis densis ovatis, calycis dente infimo tubo corollæ monopetalæ inæqualis brevior. — *Willd. sp. pl.* 3. p. 1366.

Icon. *Fl. dan.* 989. *Mart. fl. rust.* 3.

In fields and woods, frequent. 2. May—Sept. *v. v.* Common *Red Clover* is apparently in a native state, but very probably has been introduced.

pensylvanicum.

6. *T. adscendens*; caule ramosissimo flexuoso, foliis ovato-ellipticis obtusis integerrimis, stipulis aristatis, spicis ovato-cylindraceis solitariis densis, calycis dente infimo corollæ monopetalæ brevior. — *Willd. enum.* p. 793.

In woods and fields: Pennsylvania to Virginia. 2. June—Sept. *v. v.* Resembles *T. medium* very much; flowers a fine red. It is known by the name of *Buffalo Clover*.

arvense.

7. *T. erectum*, ramosissimum, villosum; foliis lineari-lanceolatis apice serrulatis, stipulis connatis apice subulatis, spicis villosissimis subcylindraceis, dentibus calycinis setaceis corolla longioribus. — *Willd. sp. pl.* 3. p. 1373.

Icon. *Fl. dan.* 724. *Curt. fl. lond.* 50.

In dry and sandy fields: Canada to Virginia. 3. July, Aug. *v. v.* Flowers small, white; the wings have a red spot.

agrarium.

8. *T. erectum*, subpubescens; foliis lanceolato-cuneatis obtusis: intermedio sessili, stipulis lanceolatis acutis, spicis ovalibus imbricatis, vexillis deflexis persistentibus, calycinis dentibus subulatis glabris inæqualibus. — *Willd. sp. pl.* 3. p. 1382.

T. aureum. Pollich. fl. palat. n. 708.

Lupinus macrocephalus.

T. strepens. *Crantz. fl. austr.* 411. n. 8.

Icon. *Fl. dan.* 558.

In meadows : Pennsylvania to Virginia. ☉. June—Aug.
v. v. Flowers small, yellow.

9. *T. procumbens*; caule piloso; foliolis obovatis submarginatis glabris, stipulis brevibus lanceolatis acutis, spicis ovalibus imbricatis, vexillis deflexis persistentibus sulcatis.—*Willd. sp. pl.* 3. p. 1383. *procumbens.*

Icon. *Fl. dan.* 796.

On dry gravelly soil : Pennsylvania to Virginia. ☉. June—Aug. v. v. Flowers yellow, resembling those of the foregoing species.

577. LUPINASTER. *Mæench. meth. suppl.* p. 50.

Pentaphyllon. *Pers. syn.* 2. p. 352.

1. *L. foliolis novenis oblanceolatis, petiolis longissimis, stipulis cuneatis inciso-3-dentatis, calycinis dentibus filiformibus plumosis.* *macrocephalus.*

At the head-waters of the Missouri. *M. Lewis.* 2. April, May. v. s. in *Herb. Lewis.* Flowers yellowish-white, with a pale purple carina, very handsome and showy : the flower-heads sometimes grow to an extremely large size.

Caules plures, simplices, angulosi, pilosi. *Folia* petiolata, suprema opposita, novena. *Foliola* inæqualia, cuneato-lanceolata, inæqualiter mucronato-denticulata, supra glabra, subtus pilosa, lineato-venosa, uncialia. *Petiololi* inferiores longi, subteretes. *Stipulæ* inferiores petiolo adnatæ, superiores liberæ, cuneato-oblongæ, apice inciso-3-dentatæ, margine serrulatæ, consistentia et pubescentia foliorum. *Capitulum* speciosum, dimidiatum. *Flores* lutescentes, carina purpurascente. *Cal.* campanulatus, subæqualiter 5-dentatus, villosissimus : dentibus subulatis piloso-plumosis corollam subæquantibus. *Corollæ*: *Vexillum* magnum, oblongo-lanceolatum, acutum, cæteras partes fructificationis involvens. *Alæ* carinæ adnatæ, lineares. *Carina* uncinata, integra, vexillo vix brevior. *Filamenta* 10. diadelphe : 1. liberum, reliqua superne libera, inferne monadelphe, carina adnata. *Germen* oblongum, glabrum. *Stylus* filiformis. *Stigma* simplex, hirsutum. *Legumen* 3-4-spermum, inflatum, calyce longius.

578. STYLOSANTHES. *Gen. pl.* 1203.

- hispida.* 1. *S.* caule uno latere pubescente, foliolis lanceolatis glabris, bracteis lanceolatis ciliatis, capitulis 2-3-floris.—*Mich. fl. amer.* 2. p. 75.
Trifolium biflorum. *Sp. pl.* 1088.
Arachis aprica. *Walt. fl. car.* 182.
- erecta.* α. *S.* caule simplici erecto superne breviter ramoso.
Icon. Swartz. act. holm. 1789. t. 11. f. 2.
- procumbens.* β. *S.* caule procumbente a basi ramoso.
 In dry gravelly fields and woods; Pennsylvania to Carolina. 4. July, Aug. v. v. Flowers yellow, small.

579. GLYCYRRHIZA. *Gen. pl.* 1197.

- lepidota.* 1. *G.* foliolis oblongis acutis sericeo-villosis, leguminibus racemosis oblongis hispidis.—*Fraser. catal.*
 On the banks of the Missouri. 4. July, Aug. v. s.
v. v. s. fl.

580. LESPEDEZA. *Mich. fl. amer.* 2. p. 70.

- sessiliflora.* 1. *L.* erecta; foliolis oblongis, fasciculis florum sessilibus numerosis, lomentis calyce minuto subnudatis acutis.
Mich. fl. amer. 2. p. 70.
Hedysarum junceum. *Walt. fl. car.* 184.
Hedysarum sessiliflorum. *Lam. encycl.* 6. p. 414.
Hedysarum reticulatum. *Willd. sp. pl.* 3. p. 1194.
Medicago virginica. *Syst. veg.* 3. p. 573.
 In old fields and on the borders of woods: New York to Carolina. 4. July, Aug. v. v. Flowers purple.
- capitata.* 2. *L.* erecta, simplex; foliis subsessilibus: foliolis ellipticis, spicis capitatis brevi-pedunculatis axillaribus et conglomerato-terminalibus, calycibus villosis longitudine corollæ lomentis calyce multo minoribus. *Mich. fl. amer.* 3. p. 71.
Hedysarum conglomeratum. *Lam. encycl.* 6. p. 416.
- angustifolia.* β. *L.* foliolis linearibus, pedunculis longioribus.
Trifolium erectum haud ramosum, foliis longis, &c.
Clayt. n. 934.
 In sandy soil, in old fields and borders of woods: New York to Carolina. 4. June, July. v. v. From one to three feet high; flowers pale purple.
- polystachya.* 3. *L.* erecta, ramosa, villosissima; foliis subsessilibus: foliolis rotundato-ovalibus, spicis axillaribus longe-pe-

dunculatis, corollis calyce subæqualibus, lomento calyem subæquante.—*Mich. fl. amer.* 3. p. 71.

Hedysarum hirtum. Willd. *sp. pl.* 3. p. 1193.

Icon. *Mich. fl. amer.* 2. t. 40.

In copses and old fields: Pensylvania to Carolina. 2.

June—Aug. v. v. From two to three feet high; flowers small, white, with a red spot on the vexillum.

4. *L. diffusa*, ramosissima; foliis longe-petiolatis: foliolis ellipticis obtusis subtus adpresso-pilosis, racemis brevibus umbellatis, floribus geminatis, lomentis rhombeis reticulatis glabris.

Hedysarum violaceum. Willd. *sp. pl.* 3. p. 1195.

On gravelly dry soil: Virginia to Carolina. 2. July. v. v. Flowers small, purple or violet.

violacea.

5. *L. diffusa*, ramosa; foliolis oblongis obtusis subtus adpresso-pilosis, racemis petiolo longioribus, floribus geminis, lomentis ovatis reticulatis glabris.

Hedysarum divergens. Willd. *sp. pl.* 3. p. 1196.

In North America. *Muhlenberg.* 2. +. Approaches very near to the foregoing species, and is probably only a variety.

divergens.

6. *L. procumbens*, gracilis, pubescens; foliolis ovalibus, pedunculis longissimis, setaceis spicifloris, leguminibus calyce minuto nudatis.—*Mich. fl. amer.* 3. p. 70.

Hedysarum Lespedeza. Lam. *encycl.* 6. p. 415.

In sandy and gravelly soil: New York to Carolina. 2. June, July. v. v. Flowers violet-purple, with yellow spots.

procumbens.

7. *L. prostrata*; foliis petiolatis: foliolis ellipticis obtusis subtus pilis raris adpressis tecta, racemis axillaribus folio longioribus, lomentis ovatis pubescentibus.

Hedysarum prostratum. Willd. *sp. pl.* 3. p. 1200.

In Pensylvania. *Muhlenberg.* 2. +. Resembles *Hedysarum repens* greatly.

prostrata.

581. HEDYSARUM. Gen. pl. 1204.

1. *H. erectum*, glabriusculum; foliis ternatis oblongo-lanceolatis, stipulis filiformibus, floribus racemosis, articulis lomenti obtuse triangulis hispidis.—*Willd. sp. pl.* 3. p. 1187.

Icon. *Moris. hist.* 2. s. 2. t. 11. f. 9.

In sandy barren fields and woods: Canada to Carolina. 2. July, Aug. v. v. Flowers middle-sized, of a handsome purplish-red.

canadense.

- canescens.* 2. *H. erectum*, pilosum : caule angulato-ciliato hispido, foliis ternatis subrotundis subtus adpresso-pilosis, stipulis ovatis acuminatis, racemis paniculatis, bracteis cordatis, lomenti articulis triangularibus hispidis.—*Willd. sp. pl.* 3. p. 1188.
In dry barren woods : Virginia and Carolina. 2. June—Aug. v. v. Flowers middle-sized, pale purple.
- marylandicum.* 3. *H. erectum*, ramosum, pilosum; foliis ternatis oblongis subtus villosis, stipulis subulatis, racemis paniculatis, lomentis triarticulatis, articulis rhombeis reticulatis pilosiusculis.—*Willd. sp. pl.* 3. p. 1189.
Icon. *Dill. elth. t.* 174. f. 171.
In dry swamps and woods : New York to Carolina. 2. June—Aug. v. v. Flowers large, a fine purple, with a green spot at the bottom of the vexillum, which mark occurs in most species.
- obtusum.* 4. *H. erectum*, pubescens; foliis ternatis ovatis obtusis basi subcordatis, stipulis lanceolato-subulatis, panícula terminali, articulis lomenti semiorbiculatis reticulatis hispidis.—*Willd. sp. pl.* 3. p. 1190.
In dry swamps, old fields and woods : Pennsylvania to Virginia. 2. July, Aug. v. v. Flowers violet.
- viridiflorum.* 5. *H. erectum*, ramosum, pubescens; foliis ternatis ovato-oblongis subtus scabris, stipulis lanceolato-cuspidatis, racemis paniculatis bracteatis, lomentis asperis, articulis ovalibus.—*Willd. sp. pl.* 3. p. 1192.
Icon. *Pluk. alm. t.* 308. f. 5.
In woods and old fields : New Jersey to Carolina. 2. July—Sept. v. v. About three feet high; flowers reddish-purple, which turns green after flowering.
- glabellum.* 6. *H. erectum*, glabrum; foliis ternatis ovatis obtusis subtus subglaucis, stipulis parvis subulatis, panícula terminali, lomenti articulis triangulo-romboideis.—*Mich. fl. amer.* 3. p. 73.
In fields and woods : Virginia and Carolina. 2. July, Aug. v. v. Flowers purple, small.
- bracteosum.* 7. *H. erectum*, glabrum; foliis ternatis oblongo-ovalibus acuminatis, stipulis subulatis, racemo terminali sparsifloro, bracteis ovatis acuminatis striatis glabris, lomenti articulis subovalibus.—*Mich. fl. amer.* 2. p. 73.
In the western parts of Pennsylvania and Virginia. 2. July—Sept. v. v. Flowers large, purplish-red.
- ciliare.* 8. *H. erectum*, glabriusculum; foliis ternatis ovatis subtus

pubescentibus margine ciliatis, stipulis filiformibus, panicula terminali, lomenti articulis (2-3) semiorbiculatis hispidis.—*Willd. sp. pl.* 3. p. 1196.

In North America. *Muhlenberg.* 2. +. Flowers small, violet.

9. *H. erectum*, glabrum; foliis ternatis oblongo-lanceolatis *paniculatum.*
vel ellipticis glabris, stipulis subulatis panicula terminali, lomenti articulis (4) rhombeis pubescentibus.—*Willd. sp. pl.* 3. p. 1196.

Icon. *Pluk. mant. t.* 432. *f.* 6.

In dry woods and fields: New York to Carolina. 2. June—Aug. *v. v.* Flowers purple.

10. *H. stricte-erectum*, glabrum, simplex; foliis petiolatis ternatis lineari-ellipticis glabris reticulato-venosis subtus glaucis, stipulis subulatis, panicula terminali pedunculata pauciflora. *strictum.*

In pine-woods of New Jersey. 2. July, Aug. *v. v.* Flowers small, pale purple; seeds not known.

11. *H. erectum*, glabrum; foliis ternatis petiolatis ovato-oblongis longe-acuminatis glabris margine scabris, stipulis ovato-lanceolatis, panicula terminali, articulis lomenti triangularibus reticulatis glabris margine pubescentibus.—*Willd. sp. pl.* 3. p. 1198. *cuspidatum.*

In shady woods: Pennsylvania and Virginia. 2. July, Aug. *v. v.* Flowers violet.

12. *H. erectum*, simplex, pubescens, summitate frondosum; foliis ternatis ovatis longe acuminatis utrinque rariter adpresso-pilosis longissime petiolatis: impari rotundato-subrhomboideo, panicula terminali longissime pedunculata.—*Mich. fl. amer.* 2. p. 72. *acuminatum.*

In shady woods: New England to Carolina. 2. July, Aug. *v. v.* Not above a foot high; flowers purple. It approaches near the foregoing species, and is the connecting link between that and the following.

13. *H. erectum*, simplex, glabriusculum; foliis ternatis lato-ovalibus acuminatis, scapo paniculato glabro radicali caule foliifero altiore, lomenti articulis subrotundo-triangularibus glabriusculis.—*Willd. sp. pl.* 3. p. 1198. *nudiflorum.*

In woods and old fields: New England to Carolina. 2. June—Sept. *v. v.* About a foot high; flowers purple.

14. *H. erectum*, simplex; foliis longe petiolatis ternatis subrotundo-ovatis acuminatis, panicula scapiformi e caulis *glutinosum.*

basi, pedunculis piloso-viscosis, lomenti articulis oblongo-triangularibus glabriusculis.—*Willd. sp. pl.* 3. p. 1198.

In dry shady places, in the western parts of Pennsylvania and Virginia. *℥*. July, Aug. *v. v.* Flowers purple.

- lineatum.* 15. *H. caule repente viridi lineato, foliis subsessilibus ternatis suborbiculatis, racemis elongatis laxe parvifloris, lomenti articulis lenticularibus.*—*Mich. fl. amer.* 2. p. 72.

In Carolina. *Michaux. ℥. +.*

- rotundifolium.* 16. *H. prostratum, hirsutum; foliis ternatis orbiculatis utrinque pilosis, stipulis rotundato-cordatis reflexis, racemis axillaribus et paniculato-terminalibus paucifloris, bracteis cordatis, lomenti articulis subrhomboideis reticulatis scabris.*—*Mich. fl. amer.* 2. p. 72.

In rocky, dry situations: Pennsylvania to Carolina. *℥*. July, Aug. *v. v.* A handsome species: flowers purple.

- alpinum.*
β. americanum. 17. *H. erectum; foliis pinnatis: foliolis ovali-oblongis pilosis, stipulis subvaginantibus, leguminibus patulis glabris ex utraque sutura articulatis: articulis brevi-ovalibus.* *Mich. fl. amer.* 2. p. 74.

In the north of Canada, and near the cataracts of the Alleghany mountains. *Michaux. ℥. +.* Flowers purple.

582. ZORNIA. *Mich. fl. amer.* 2. p. 76. *Gmel. syst. veg.* 1096.

- tetraphylla.* 1. *Z. foliis digitato-quadrifoliatis: foliolis lanceolatis glabris, spicis axillaribus pedunculatis, floribus alternis bibracteatis, bracteis suborbiculatis.*—*Mich. fl. amer.* 2. p. 76.

Z. bracteata. Gmel.

Hedysarum tetraphyllum. Lam. encycl. 6. p. 405.

Anonymos bracteata. Walt. fl. car. 181.

Icon. Mich. fl. amer. 2. t. 41.

In sandy fields of Lower Carolina. *℥*. July, Aug. *v. s.* in *Herb. Enslen.* About a foot high, very branching; flowers yellow.

583. *ÆSCHYNOMENE*. *Gen. pl.* 1202.

1. *A. caule prostrato gracili viscido-pubescente, foliolis 7—9. obovalibus, pedunculis subbifloris, lomento pubescente profunda incisura articulata.*—*Mich. fl. amer.* 3. p. 74.

viscidula.

On the overflowed sands of Florida, and Cumberland island, Georgia. *Michaux.* ☉. +.

2. *A. caule erecto petiolisque tuberculato-hispido, foliis multijugis: foliolis linearibus obtusis, stipulis membranaceis semisagittatis, racemis simplicibus paucifloris, lomentis hispidis.*—*Willd. sp. pl.* 3. p. 1163.

hispida.

Hedysarum virginicum. *Willd. sp. pl.* 3. p. 1212.

On the banks and islands of the principal rivers, as far as the tide flows: Pennsylvania to Carolina. ☉. July, Aug. *v. v.*; *v. s.* in *Herb. Gronov.* Flowers yellow, finely veined with red.

584. *SESBANIA*. *Poiret in lam. encycl.* 7. p. 126.

1. *S. glabra; foliis sub-20-jugis: foliolis oblongis obtusis glabris margine ciliatis, racemis pedunculatis paucifloris folio brevioribus, lomentis lato-lanceolatis compressis longe stipitatis subdispermis.*

disperma.

S. platycarpa. *Pers. syn.* 2. p. 316.

Robinia vesicaria. *Jacq. ic. rar.* 1. t. 48.

Phaca floridana. *Pers. syn.* 2. p. 331.

Æschynomene platycarpa. *Mich. fl. amer.* 2. p. 75.

In overflowed places: Carolina and Florida. ☉. *v. s.* Flowers yellow.

585. *GLYCINE*. *Gen. pl.* 1182.

1. *G. caule volubili, foliis ternatis ovatis acutis glabris, racemis filiformibus sub-3-floris, floribus apetalis, leguminibus oblongis dispermis.*—*Willd. sp. pl.* 3. p. 1055.

sarmentosa.

G. monoica. *Schkuhr bot. annal.* 12. p. 20. t. 2.

In low grounds, among bushes: Virginia and Carolina. ☉. July, Aug. *v. v.* It might with propriety form a separate genus, if the following species did not show the strong claim it has to be still considered a *Glycine*.

2. *G. caule gracili retrorsum piloso, foliis ternatis ovatis glabris membranaceis, racemis caulinis pendulis laxis corollatis plerumque sterilibus, bracteis suborbiculatis*

monoica.

concavis, pedunculis radicalibus floribus apetalis fructiferis.—*Willd. sp. pl.* 3. p. 1055.

G. bracteata. Sp. pl. p. 754.

On the banks of rivulets in stony and shady places : New York to Carolina. $\odot$. July—Sept. *v. v.* The flowers on the stem resemble those of *Vicia Cracca*, they are pale blue, and seldom produce ripe fruit ; the long radical tendrils have exceeding small flowers which produce a pod, generally with only one seed, which drops into the ground before maturity.

comosa.

3. *G. caule volubili, foliis ternatis ovato-lanceolatis acutis hirsutis, racemis lateralibus pendulis confertifloris, floribus omnibus fructiferis.*—*Willd. sp. pl.* 3. p. 1058.

In hedges near rivers and ditches : New York to Virginia. $\mathcal{U}$. July—Sept. *v. v.* Flowers blue, of the size and shape of the preceding species, to which it has a strong resemblance, but differs in being a perennial and robust plant, besides the other characters given.

tomentosa.

4. *G. caule volubili anguloso, foliis ternatis ovato-oblongis acutis pubescentibus, subtus rugoso-venosis tomentosis, racemis axillaribus petiolo brevioribus, leguminibus oblongis dispermis.*—*Willd. sp. pl.* 3. p. 1061.

Icon. Dill. elth. t. 26. *f.* 29.

erecta.

β . *G. tomentosior ; caule erecto, foliis oblongo-ovalibus.*

Trifolium erectum. Walt. fl. car. . . .

In sandy ground, among hedges : β . on road sides and old fields : Virginia to Georgia. $\mathcal{U}$. June—Aug. *v. v.* Flowers yellow.

reniformis.

5. *G. erecta, humilis, pubescens ; foliis omnibus simplicibus reniformi-rotundatis rugosis reticulatis, junioribus tomentosis, racemis subæssilibus paucifloris, leguminibus compresso-ovatis dispermis.*

G. tomentosa γ . *monophylla. Mich. fl. amer.* 2. p. 63.

Trifolium simplicifolium. Walt. fl. car. 184.

In barren pine-woods : Carolina and Georgia. $\mathcal{U}$. July, Aug. *v. s.* Flowers yellow.

586. GALACTIA. *Brown. Mich. fl. amer.* 2. p. 61.

mollis.

1. *G. volubilis, molliter pubescens, subcanescens ; foliis ternatis ovato-oblongis obtusis glabriusculis subtus glaucis, racemis axillaribus simplicibus elongatis paucifloris, leguminibus villosis.*—*Mich. fl. amer.* 2. p. 61.

Hedysarum volubile. Willd. *sp. pl.* 3. p. 1204.

In pine-barrens: New Jersey to Carolina. 2. July, Aug. v. v. Flowers purple, with yellow and white, the size of *Hedysarum paniculatum*.

2. *G. prostrata*, subvolubilis, glabriuscula; foliis ternatis elliptico-oblongis obtusis utrinque emarginatis utrinque glabris, racemis axillaribus simplicibus abbreviatis paucifloris, calycibus glabris, leguminibus villosis.—*Mich. fl. amer.* 2. p. 62.

glabella,

Dolichos regularis. Willd. *sp. pl.* 3. p. 1049.

Ervum volubile. Walt. *fl. car.* 187.

In pine-woods and sandy fields: New Jersey to Carolina. 2. June—Sept. v. v. The roots are fusiform, and extend to a great depth: the flowers, though not large, are extremely pretty, purple, red and white mixed.

587. CLITORIA. *Gen. pl.* 1183.

1. *C. foliis ternatis ovatis calyce bracteis longiore 5-partito: laciniis subulatis incurvis divergentibus, leguminibus subensiformibus*.—Willd. *sp. pl.* 3. p. 1069.

virginiana,

Icon. *Dill. elth. t.* 76. f. 87.

In hedges: Virginia and Carolina. 2. July, Aug. v. v. Flowers large, beautiful blue, very handsome and ornamental.

2. *C. foliis ternatis, calyce bracteis lineari-lanceolatis multoties majore, oblongo-tubuloso 5-fido, legumine faciebus convexis toruloso, seminibus glutinosis*. *Mich. fl. amer.* 2. p. 62. Willd. *sp. pl.* 3. p. 1070.

mariana.

In hedges on the banks of rivulets: Virginia and Carolina. 2. July—Sept. v. v. Flowers smaller and of a paler blue than the preceding.

588. ROBINIA. *Gen. pl.* 1195.

1. *R. foliis impari-pinnatis, stipulis spinescentibus, racemis pendulis, calycis dentibus muticis, leguminibus lævibus*.—Willd. *sp. pl.* 3. p. 1131.

Pseudacacia,

Icon. *Schmidt arb.* 32. *Duham. arb. ed. nov.* 16. *Wangh. arb. t.* 7. f. 19. *Pluk. alm. t.* 4.

On dry fertile ridges on the mountains, from Canada to Carolina. 2. May, June. v. v. Flowers white, sweet-scented. This highly ornamental tree is at the same time a most useful one: its wood is almost in-

corruptible, and particularly calculated for posts of gates and fences. It is universally known by the name of *False Acacia*, in America *Locust-tree*.

viscosa.

2. *R. foliis impari-pinnatis, racemis axillaribus erectis confertifloris, calycibus acuminatis, ramis petiolis pedunculis leguminibusque glanduloso-viscosis.*—*Willd. sp. pl.* 3. p. 1131.

R. glutinosa. Bot. mag. 560.

Icon. *Vent. desc. pl. nov. t.* 4. *Duham. arb. ed. nov.* 17.

On the banks of rivers in South Carolina, particularly on the Savannah. ♀. June, July. *v. v.* Flowers pale red, with white. This tree is highly ornamental; but its creeping roots are a great nuisance in small plantations.

hispida.

3. *R. foliis impari-pinnatis: foliolis rotundato-ovalibus mucronatis, racemis axillaribus suberectis, calycibus acuminatis, caule subinermi, ramis pedunculis calycibus leguminibusque hispidis.*—*Willd. sp. pl.* 3. p. 1132.

R. montana. Bartr. catal.

R. rosea. Duham. arb. ed. nov. 18.

Icon. *Bot. mag.* 311. *Schmidt arb.* 31. *Catesb. car.* 3. t. 20. *Mill. ic.* 244.

rosea.

- β. *R. foliolis plerumque alternis, ramulis glabriusculis.*

On the high mountains of Virginia and Carolina. ♀. May—Sept. *v. v.* Flowers large, a beautiful rose-colour, inodorous. This elegant little shrub is one of the highest ornaments of our gardens and plantations. The var. β. is less hispid, and grows to a considerable large upright shrub, whereas the original *hispida* is a low straggling plant.

589. INDIGOFERA. *Gen. pl.* 1205.

caroliniana.

1. *I. herbacea, erecta; foliis pinnatis: foliolis obovalibus, spicis folio longioribus pedunculatis, floribus distantibus, leguminibus pendulis subdispermis reticulato-venosis.*—*Walt. fl. car.* 187. *Mich. fl. amer.* 2. p. 68.

In sandy fields: Carolina to Florida. ♀. *v. s.* Flowers blue.

590. TEPHROSIA. *Pers. syn. 2. p. 329.*

1. *T. erecta*, candicanti-villosa; foliolis (17—21) ovali-oblongis acuminatis, racemo terminali brevi subsessili, leguminibus retrofalcatis villosis, calycibus lanatis.—*Pers. syn. 2. p. 329.* *virginiana.*

Galega virginiana. Pluk. alm. t. 23. f. 2.

In sandy and dry woods: Canada to Florida. 4. June, July. *v. v.* About a foot high; flowers very handsome, rose-coloured and yellowish white.

2. *T. prostrata*, pubescens; foliis pinnatis quinis subsessilibus: foliolis cuneato-obovatis obtusissimis supra glabris, subtus sericeis, pedunculis oppositifoliis elongatis sub-3-floris, leguminibus rectiusculis. *chrysophylla.*

Galega villosa. Mich. fl. amer. 2. p. 67?

In Georgia. *Enslen. 4. July, Aug. v. s. in Herb. Enslen.* Flowers purple. The singular circumstance of the nearly sessile leaves, gives it the appearance of a trifoliate plant, the lower pair representing stipulæ. Though Michaux's description answers very well in any other respect, I was led to doubt by his not mentioning the number of leaves, which is one of the most striking characters.

3. *T. gracilis*, humifusa, pubescens; foliolis (13—15) oblongo-ellipticis truncato-obtusis mucronatis, pedunculis oppositifoliis elongatis 3—5-floris, leguminibus oblongis falcatis hispidis. *hispidula.*

Galega hispidula. Mich. fl. amer. 2. p. 68.

Galega spicata. Walt. fl. car. 188.

In pine-woods and on slate-hills: Virginia to Georgia. 4. July—Sept. *v. v.* Flowers pale red.

591. LOTUS. *Gen. pl. 1212.*

1. *L. foliis ternatis subsessilibus oblongis acutis sericeo-villosis*, pedunculis axillaribus unifloris folio longioribus, flore unibracteato, calycinis laciniis linearibus, legumine glabro longissimo. *sericeus.*

On the banks of the Missouri. ☉. *v. s.* Flowers yellow.

592. MEDICAGO. *Gen. pl.* 1214.*lupulina.*

1. *M. spicis ovalibus*, leguminibus reniformibus monospermis stipulis integerrimis, foliolis obovatis, caulibus procumbentibus.—*Willd. sp. pl.* 3. p. 1406.

Icon. *Schkuhr handb.* t. 212.

In gravelly soil, on road sides: Canada to Carolina. ☉.
June—Sept. *v. v.* Flowers small, yellow.

intertexta.

2. *M. pedunculis subbifloris*, leguminibus cochleatis ovalibus, aculeis pubescentibus setaceis distichis adpressis, stipulis ciliato-dentatis, foliolis obovatis dentatis.—*Willd. sp. pl.* 3. p. 1411.

M. polymorpha *intertexta*. *Sp. pl.* 1098.

Icon. *Schkuhr handb.* 212. b.

In sandy fields: Carolina. July, Aug. *v. v.* Flowers yellow.

Note.—In addition to the observations under *Psoralea esculenta*, p. 475. it may be interesting to state, that A. B. Lambert, Esq. raised in the summer of 1812 a number of plants, the seeds of which were taken out of a specimen collected in the year 1805 by M. Lewis, Esq. Also, that this highly interesting plant is now growing at Messrs. Frasers, Sloane Square.

XVII. SYNGENESIA.

I. ÆQUALIS.

* *Ligulatæ.*

593. CICHORIUM. *Recept.* subpaleaceum. *Pappus* polyphyllus, paleaceus. *Cal.* calyculatus.
594. APARGIA. *Recept.* nudum. *Pappus* plumosus, sessilis. *Cal.* imbricatus.
595. SCORZONERA. *Recept.* nudum. *Pappus* plumosus, substipitatus. *Cal.* imbricatus, squamis margine scariosis.
596. LEONTODON. *Recept.* nudum. *Pappus* plumosus, stipitatus. *Cal.* imbricatus, squamis laxiusculis.
597. CHONDRILLA. *Recept.* nudum. *Pappus* pilosus, stipitatus. *Cal.* calyculatus. *Flosculi* multiplici serie. *Sem.* rugosa.
598. PRENANTHES. *Recept.* nudum. *Pappus* simplex, subsessilis. *Cal.* calyculatus. *Flosculi* simplici serie.
599. LACTUCA. *Recept.* nudum. *Pappus* simplex, stipitatus. *Cal.* imbricatus, cylindricus, margine membranaceo. *Sem.* lævia.
600. SONCHUS. *Recept.* nudum. *Pappus* pilosus, sessilis. *Cal.* imbricatus, ventricosus.
601. HIERACIUM. *Recept.* nudiusculum. *Pappus* simplex, sessilis. *Cal.* imbricatus, ovatus.
602. KRIGIA. *Recept.* nudum. *Pappus* membranaceus, 5-phyllus, setis 5. iterstinctis. *Cal.* polyphyllus, simplex.
603. HYOSERIS. *Recept.* nudum. *Pappus* duplex: exterior capillaceus; interior paleaceo-aristatus. *Cal.* calyculatus.
604. TRÓXIMON. *Recept.* nudum, puncticulatum. *Pappus* pilosus, sessilis. *Cal.* oblongus, conicus, simplex, aut squamis inæqualibus imbricatus.

** *Flosculosæ.*

605. STOKESIA. *Recept.* nudum. *Pappus* 4-setosus. *Cal.* foliaceus, subimbricatus. *Cor.* radiata : corollulis radii infundibuliformibus, irregularibus.
606. ARCTIUM. *Recept.* paleaceum. *Pappus* setoso-paleaceus. *Cal.* globosus : squamis apice hamis inflexis.
607. C. ICUS. *Recept.* villosum. *Pappus* plumosus. *Cal.* imbricatus, ventricosus.
608. CARDUUS. *Recept.* villosum. *Pappus* capillaris. *Cal.* imbricatus, ventricosus.
609. LIATRIS. *Recept.* nudum. *Pappus* plumosus, coloratus. *Cal.* oblongus, imbricatus.
610. VERNONIA. *Recept.* nudum. *Pappus* duplex : exterior paleaceus, brevis; interior capillaris. *Cal.* ovatus, imbricatus.
611. KUHNIA. *Recept.* nudum. *Pappus* plumosus. *Cal.* imbricatus, cylindraceus.
612. EUPATORIUM. *Recept.* nudum. *Pappus* pilosus. *Cal.* imbricatus, cylindricus. *Stylus* semibifidus, longus.
613. MIKANIA. *Recept.* nudum. *Pappus* pilosus s. plumosus. *Cal.* 4—6-phyllus, 4—6-florus. *Stylus* semibifidus, longus.
614. CHRYSOCOMA. *Recept.* nudum. *Pappus* pilosus. *Cal.* imbricatus. *Stylus* vix flosculis longior.
615. CACALIA. *Recept.* nudum. *Pappus* pilosus. *Cal.* cylindricus, basi calyculatus.
616. SPARGANOPHORUS. *Recept.* nudum. *Sem.* coronatum cupula subcartilaginea, integerrima, nitida. *Cal.* subglobosus, imbricatus : squamis apice recurvatis.
617. HYMENOPAPPUS. *Recept.* nudum. *Pappus* polyphyllus, paleaceus. *Cal.* polyphyllus, patens.
618. MELANANTHERA. *Recept.* paleaceum : paleis flosculos inferne amplexantibus. *Pappus* aristis inæqualibus, 4—5-inermibus. *Cal.* imbricatus : squamis ovatis, appressis, subæqualibus.
619. MARSHALLIA. *Recept.* paleaceum. *Pappus* paleis 5. membranaceis, acuminatis. *Cal.* imbricatus : squamis sublanceolatis incumbentibus.
620. SANTOLINA. *Recept.* paleaceum. *Pappus* nullus. *Cal.* imbricatus, hemisphæricus : squamis carinatis apice scariosis.

II. SUPERFLUA.

* *Discoidei.*

621. ARTEMISIA. *Recept.* subnudum. *Pappus* nullus. *Cor.* radii nullæ. *Cal.* imbricatus : squamis rotundatis, conniventibus.
622. TANACETUM. *Recept.* nudum. *Pappus* submarginatus. *Cor.* radii obsoletæ, 3-fidæ. *Cal.* imbricatus, hemisphæricus : squamis acuminatis.
623. BACCHARIS. *Recept.* nudum. *Pappus* pilosus. *Floscul.* feminei hermaphroditis immixti. *Cal.* imbricatus, cylindricus : squamis ovatis subcoriaceis.
624. CONYZA. *Recept.* nudum. *Pappus* simplex, capillaris. *Cor.* radii 3-fidæ. *Cal.* imbricatus : squamis linearibus aut ovatis.
625. GNAPHALIUM. *Recept.* nudum. *Pappus* plumosus. *Cal.* imbricatus : squamis marginalibus rotundatis, scariosis, coloratis.

** *Radiati.*

626. BELLIS. *Recept.* nudum. *Pappus* nullus. *Cal.* hemisphæricus : squamis æqualibus. *Sem.* obovata.
627. CHRYSANTHEMUM. *Recept.* nudum. *Pappus* nullus. *Cal.* hemisphæricus, imbricatus ; squamis intimis scariosis.
628. PYRETHRUM. *Recept.* nudum. *Pappus* marginatus. *Cal.* squamis acutiusculis margine scariosis.
629. ARNICA. *Recept.* nudum. *Pappus* simplex, pilosus. *Cal.* hemisphæricus ; foliolis subæqualibus disco longioribus. *Cor.* radii (luteæ) sæpius filamentis 5. absque antheris.
630. CINERARIA. *Recept.* nudum. *Pappus* simplex. *Cal.* simplex, polyphyllus, æqualis.
631. SENECIO. *Recept.* nudum. *Pappus* simplex. *Cal.* cylindricus, calyculatus : squamis apice sphacelatis.
632. TUSSILAGO. *Recept.* nudum. *Pappus* simplex. *Cor.* femineæ ligulatæ s. edentulæ. *Cal.* simplex : squamæ æquales, discum æquantes, submembranaceæ.
633. INULA. *Recept.* nudum. *Pappus* simplex. *Cal.* imbricatus. *Cor.* radii numerosæ (luteæ).
634. ERIGERON. *Recept.* nudum. *Pappus* pilosus. *Cor.* radii capillares (coloratæ).

635. **SOLIDAGO.** *Recept.* nudum, punctis exaratum. *Pappus* simplex. *Cor.* radii circiter 5. (flavæ). *Cal.* squamæ imbricatæ, clausæ.
636. **ASTER.** *Recept.* nudum, scrobiculatum. *Pappus* pilosus. *Cor.* radii plures, sæpius 10. (aut pauciores, colorati). *Cal.* imbricati squamæ inferiores patulæ.
637. **DONIA.** *Recept.* nudum, favosum. *Pappus* 3-4-aristatus, deciduus. *Cor.* radii plures (30-35 flavi). *Cal.* hemisphæricus, imbricatus : squamis interioribus cartilagineis, coloratis.
638. **BCEBERA.** *Recept.* nudum. *Pappus* pilosus. *Cal.* duplex : exterior polyphyllus, interior octophyllus.
639. **ACTINELLA.** *Recept.* nudum. *Pappus* polyphyllus (4-6), paleaceo-aristatus. *Cal.* polyphyllus, æqualis.
640. **HELENIIUM.** *Recept.* nudum : radii paleaceum. *Pappus* 5-aristatus. *Cor.* radiis 3-fidis. *Cal.* simplex, multipartitus.
641. **BOLTONIA.** *Recept.* favosum. *Pappus* dentato-aristatus : aristis duabus oppositis interdum elongatis. *Cor.* radii plurimæ. *Cal.* imbricatus.
642. **SIEGESBECKIA.** *Recept.* paleaceum. *Pappus* nullus. *Radius* dimidiatus. *Cal.* exterior 5-phyllus, proprius patens. *Sem.* sub-4-gona.
643. **PHÆTHUSA.** *Recept.* paleaceum. *Pappus* nullus. *Flosculi* radii 1-3. *Cal.* imbricatus. *Sem.* hispida.
644. **ECLIPTA.** *Recept.* paleaceum. *Pappus* nullus. *Cor.* disci 4-fidæ. *Sem.* subcompresso-marginata, obsolete 2-3-dentata.
645. **ANTHEMIS.** *Recept.* paleaceum : paleis planis, apice acuminatis, rigidis. *Pappus* nullus s. margo membranaceus. *Flores* radii plures quam 5. *Cal.* hemisphæricus, subæqualis.
646. **ACHILLEA.** *Recept.* paleaceum. *Pappus* nullus. *Flosc.* radii circiter 5., dilatati. *Cal.* ovatus, imbricatus. (*Flores* corymbosi.)
647. **TETRAGONOTHECA.** *Recept.* paleaceum. *Pappus* nullus. *Cal.* monophyllus, 4-gonus, 4-partitus, latissimus.
648. **HELIOPSIS.** *Recept.* paleaceum, conicum. *Pappus* nullus. *Cor.* radii lineares, magnæ. *Cal.* imbricatus : squamis ovatis, lineatis. *Sem.* 4-gona.
649. **BUPHTHALMUM.** *Recept.* paleaceum. *Pappus* margo obsoletus s. 4-dentatus. *Cal.* foliaceus. *Sem.* latera, præsertim radii, marginata.

650. AMELLUS. *Recept.* paleaceum. *Pappus* pilosus.
Cor. radii indivisæ. *Cal.* imbricatus.
651. VERBESINA. *Recept.* paleaceum. *Pappus* aristatus. *Flosc.* radii circiter 5. *Cal.* duplici ordine.
652. ZINNIA. *Recept.* paleaceum. *Pappus* aristis 2. erectis. *Radius* 5-florus, persistens. *Cal.* imbricatus, ovato-cylindricus.

III. FRUSTRANEA.

653. BIDENS. *Recept.* paleaceum: paleis extimis quasi calycem communem constituentibus. *Pappus* aristis 2. s. 4. retrorsum. *Flores* flosculosi aut etiam radiati: radiis neutris aut imperfecte masculis. *Cal.* subæqualis, calyculatus.
654. COREOPSIS. *Recept.* et *Cal.* comm. Bidentis. *Flores* radiati: radiis neutris, prolixis (luteis). *Sem.* compressa aut emarginata, aut bidentata, aut etiam bisetosa: setis inermibus nec retrorsum aculeatis.
655. HELIANTHUS. *Recept.* paleaceum, planum. *Pappus* diphyllus, caducus. *Cal.* imbricatus, subsquarrosus, foliaceus
656. GALARDIA. *Recept.* paleaceum, hemisphæricum. *Pappus* paleaceus, polyphyllus. *Cor.* radii 3-partitæ. *Cal.* polyphyllus, planus.
657. RUDBECKIA. *Recept.* paleaceum, conicum. *Pappus* margine 4-dentato. *Cal.* duplici ordine squamarum.
658. CENTAUREA. *Recept.* setosum. *Pappus* pilosus. *Cor.* radii infundibuliformes, irregulares. *Cal.* varius.

IV. NECESSARIA.

659. CHAPTALIA. *Recept.* nudum. *Pappus* capillaris. *Flosculi* radii in duplici serie diffformes, feminei. *Flosculi disci* masculi bilabiati.
660. SILPHIUM. *Recept.* paleaceum. *Pappus* marginato-bicornis. *Cal.* squarrosus, foliaceus. *Sem.* compressa, obcordata, marginata.
- 661 POLYMNIA. *Recept.* paleaceum. *Pappus* nullus. *Cal.* duplex: exterior 4-5-phyllus; interior 10-phyllus, foliolis concavis.
662. CHRYSOGONUM. *Recept.* paleaceum. *Pappus* 1-

- phyllus, 3-dentatus. *Cal.* 5-phyllus. *Sem.* calyculo 4-phylo involuta.
663. BALTIMORA. *Recept.* paleaceum. *Pappus* nullus. *Flosc.* radii 5. *Cal.* cylindricus, polyphyllus. *Sem.* 3-quetra.
664. PARTHENIUM. *Recept.* paleaceum, planum. *Pappus* nullus. *Cal.* 5-phyllus. *Sem.* obovata.
665. IVA. *Recept.* pilosum. *Pappus* nullus. *Cor.* radii 5. *Antheræ* approximatae, non coalitæ. *Styli* 2. longi. *Cor.* radii 5. femineis minimis. *Cal.* 3-phyllus.
666. AMBROSIA. *Monoica. Masc. Recept.* nudum. *Antheræ* approximatae, non coalitæ. *Cal.* 1-phyllus, hemisphæricus, multiflorus. *Fem. Cal.* 1-phyllus, subinteger aut 5-dentatus, 1-florus. *Cor.* nulla. *Styli* 2. *Nux* e calyce indurato, 1-sperma.
667. XANTHIUM. *Monoicum. Masc. Recept.* paleaceum. *Antheræ* approximatae, non coalitæ. *Cal.* polyphyllus, imbricatus, hemisphæricus, multiflorus. *Fem. Cal.* involucrem 2-phyllum, 2-florum. *Cor.* O. *Stigm.* 2. *Drupa* sicca, muricata, 2-fida. *Nucleus* 2-locularis.

V. SEGREGATA.

668. ELEPHANTEPUS. *Recept.* nudum. *Pappus* setaceus. *Calyculus* 4-florus. *Corollulæ* ligulatæ, hermaphroditæ.

I. ÆQUALIS.

593. CICHORIUM. *Gen. pl.* 1251.

Intybus.

1. C. floribus axillaribus geminis subsessilibus, foliis runcinatis. *Willd. sp. pl.* 3. p. 1624.

Icon. *Fl. dan.* 907. *Engl. bot.* 539.

In fields and on road sides: Pennsylvania, near Philadelphia. Most certainly introduced from Europe. ♀. July, Aug. v. v. Flowers beautiful blue.

594. APARGIA. *Gen. pl.* 1232.

1. *A. scapis ramosis declinatis squamosis, foliis lanceolatis runcinato-pinnatifidis glabriusculis.* *Willd. sp. pl.* 3. *p.* 1550. *autumnalis.*

Leontodon autumnale *Sp. pl.* 1123.

Hedypnois autumnalis. *Smith fl. brit.* 2. *p.* 826.

Icon. Fl. dan. 501. *Engl. bot.* 830.

In pastures and on road sides : New England. 24. Aug. Sept. *v. v.* Flowers golden-yellow, outside red. It is probably an introduced plant.

595. SCORZONERA. *Gen. pl.* 1230.

1. *S. caule erecto 3-floro, pedunculis elongatis, foliis lanceolatis acutissimis acute-pinnatifidis interdum rariter dentatis.* *Mich. fl. amer.* 2. *p.* 89. *pinnatifida.*

Leontodon carolinianum. *Walt. fl. car.* 192.

In waste places : Carolina. *Michaux.* +.

596. LEONTODON. *Gen. pl.* 1237.

1. *L. calyce exteriori reflexo, scapo unifloro, foliis runcinatis glabris, laciniis lanceolatis dentatis.* *Willd. sp. pl.* 3. *p.* 1544. *Taraxacum.*

Icon. Fl. dan. 574. *Engl. bot.* 510.

Common in fields and grass plots ; probably introduced. 24. April—July. *v. v.* Flowers yellow ; it is generally known by the name of *Dandelion*. There is another species, found in shady wet woods, which I consider indigenous, but I have no materials in hand to give its description.

597. CHONDRILLA. *Gen. pl.* 1235.

1. *C. glaberrimum, multicaule ; foliis lineari-lanceolatis integerrimis, pedunculis 2-3. longissimis subaphyllis unifloris.* *lævigata.*

In Lower Virginia. ♂. Aug. Sept. *v. v.* Flowers bright yellow ; pappus turns a pale red ; the peduncles are from six to ten inches long, with a few linear, small leaves.

598. PRENANTHES. *Gen. pl.* 1230.*juncea.*

1. *P. caule virgatum-ramosissimo sulcato glabro, foliis caulinis remotis subulatis brevissimis, ramulis unifloris, calycibus 5-fidis 5-floris: foliolis margine membranaceis.*

On the banks of the Missouri. *W. v. s.* Flowers purple; it has a striking resemblance to *Chondrilla juncea*; but the leaves are shorter, and the pappus entirely sessile; the radical leaves I have not seen.

altissima.

2. *P. caule ramoso, foliis trilobis petiolatis angulatis denticulatis margine scabris, racemis axillaribus, floribus nutantibus, calycibus sub-5-floris.—Willd. sp. pl. 3. p. 1537.*

Icon. *Pluk. alm. t. 317. f. 2.*

In shady woods: Canada to Virginia. *W.* July—Sept. *v. v.* Flowers yellow. Generally a very tall robust plant.

cordata.

3. *P. caule superne paniculato, foliis petiolatis cordatis denticulatis ciliatis, floralibus sessilibus oblongis integerrimis, panicula laxa racemiflora, floribus nutantibus, calycibus 6-fidis 6-floris.—Willd. hort. berol. 25.*

In shady woods, about rocks; New York to Virginia. *W.* Aug.—Oct. *v. v.* Flowers pale yellow. It is an intermediate species between the preceding and *P. alba*.

virgata.

4. *P. glabra; caule simplicissimo, foliis omnibus lyrato-sinuatis, racemulis subsecundis, floribus pendulis, calycibus glabris 8-fidis 10-floris.—Mich. fl. amer. 2. p. 83.*

P. autumnalis. Walt. fl. car. 193.

In sandy fields, near ditches: New Jersey to Carolina. *W.* Aug. Sept. *v. v.* From three to six feet; flowers pale purple. This plant has a very fine effect in large plantations. Michaux quotes Gronovius; but his *P. autumnalis* belongs to *P. rubicunda*.

simplex.

5. *P. caule simplicissimo, foliis superioribus lineari-lanceolatis integerrimis, radicalibus lanceolatis sinuatis, racemo terminali simplicissimo, floribus nutantibus, calycibus sub-8-floris.*

P. virgata. Willd. sp. pl. 3. p. 1533.

In Carolina. *Enslen. W.* July, Aug. *v. s. in Herb. Enslen.* About two feet high; flowers purple.

6. *P. foliis lato-lanceolatis in petiolum attenuatis inæqualiter angulato-dentatis, panicula fasciculis terminalibus paucifloris nutantibus, calycibus hirsutis 10—12-fidis sub-20-floris.*—*Mich. fl. amer.* 2. p. 84.

crepidina.

In Illinois and on the high mountains of Carolina. *Michaux.* 2. +.

7. *P. foliis radicalibus angulato-hastatis dentatis sublobatis, caulinis subrotundo-ovatis dentatis petiolatis, summis lanceolatis, panicula laxa, fasciculis terminalibus nutantibus, calycibus 8-fidis 9—10-floris.*—*Willd. sp. pl.* 3. p. 1536.

alba.

P. suavis. Parad. lond. 85.

Icon. Bot. mag. 1079.

In shady woods : New England to Carolina. 2. Aug. Sept. *v. v.* About two feet high ; calyces purple, flowers white.

8. *P. foliis ciliatis, radicalibus hastato-angulatis subintegerrimis, inferioribus obovatis basi attenuatis subangulatis, summis lanceolatis integerrimis, racemo simplici, floribus nutantibus.*—*Willd. sp. pl.* 3. p. 1537.

rubicunda.

P. alba β. Sp. pl. 1122.

P. autumnalis. Gron. fl. virg. 1. p. 89.

In shady woods : Pennsylvania to Carolina. 2. Aug.—Oct. *v. v.* Resembles the preceding ; not above eighteen inches high.

9. *P. foliis dentatis asperis, radicalibus palmato-sinuatis, caulinis longe petiolatis sinuato-pinnatifidis subtrilobis : lacinia intermedia 3-partita, summis lanceolatis, racemis terminalibus subpaniculatis brevibus nutantibus, calycibus 8-fidis 12-floris.*

Serpentaria.

On the mountains of Virginia and Carolina. 2. Aug.—Oct. *v. v.* About two feet high ; flowers pale purple. This plant is known by the inhabitants under the name of *Lion's-foot*, and is in high esteem as a specific in curing the bite of the rattlesnake. During my travels through the mountains of Virginia, I had an opportunity of being a witness of the efficacy of this remedy. A man living in Cove-mountains, near the Sweet-springs, was bit in the foot by a Mocassin snake, a species considered the most dangerous. An inflammation and swelling of his whole leg took place immediately ; but by taking the milky juice of this plant boiled in milk, inwardly, and applying to the wound the steeped leaves, which were very frequently changed, he was cured in a few days. As this plant deserves

the attention of the physician, I have given a figure of it, it being frequently confounded with another species of this genus, which probably may not have quite so strong an effect, as the inhabitants are very careful to have the true *Lion's-foot*, in case of accidents happening, and usually call the other species of *Prenanthes* *False Lion's-foot*. Gronovius, in his *Flora*, pag. 113, mentions Dr. Witt's *Snake-root* under *P. autumnalis* or Willdenow's *rubicunda*, as a remedy for the bite of the rattlesnake; which shows that he had information of the use made of this plant, though he did not know the genuine species. In the Danksian Herbarium is a specimen of *P. rubicunda*, with the following note in the hand-writing of Clayton: "This is the rattlesnake-root that Dr. Witt supposes to be the best cure for the bite of the snake, a very odd plant, hardly two leaves alike upon a plant, as to shape or the indentings of the leaves."

- racemosa*. 10. *P. caule simplici, foliis omnibus indivisis lævibus, radicalibus ovali-lanceolatis, caulinis semiamplexicaulibus, racemo oblongo hirsutissimo, fasciculis cernuis, calycibus 8-9-partitis 9-12-floris. Mich. fl. amer. 2. p. 84.*

In the northern parts of Canada. *Michaux.* +.

- illinoensis*. 11. *P. caule simplici, foliisque asperriimis, foliis omnibus indivisis ovali-lanceolatis, racemo longo, fasciculis subsessilibus erectis hirsutis. Pers. syn. 2. p. 366.*

P. aspera. Mich. fl. amer. 2. p. 83.

In natural meadows in the Illinois country. *Michaux.* +.

599. LACTUCA. *Gen. pl.* 1234.

- elongata*. 1. *L. foliis subtus lævibus, inferioribus runcinatis integerriimis amplexicaulibus, infimis dentatis, summis lanceolatis, floribus corymboso-paniculatis. Willd. enum. 817. Willd. sp. pl. 3. p. 1525.*

L. longifolia. Mich. fl. amer. 2. p. 85 ?

In woods, on road sides, in fertile soil: Canada to Carolina. ♂. Aug. Sept. *v. v.* From three to six feet high. Flowers small, pale yellow.

- graminifolia*. 2. *L. caule erecto simplici, foliis internodiis plerisque indivisis basi simplici longissime linearibus, panicula aphylla laxa, ramis rarifloris, floribus omnibus pedunculatis. Mich. fl. amer. 2. p. 85.*

In Lower Carolina. *Michaux.* +.

600. SONCHUS. *Gen. pl.* 1233.

1. *S. pedunculis calycibusque hispidis subumbellatis, foliis runcinatis denticulatis basi cordatis, radice repente.* *Smith fl. brit.* 2. p. 817. *Willd. sp. pl.* 3. p. 1512.
Icon. Engl. bot. 674. *Curt. fl. lond.* 53.
 Among rubbish and in cultivated grounds: Pennsylvania.
 ♀. Aug. Sept. *v. v.* Flowers large, deep yellow. *arvensis.*
2. *S. pedunculis subtomentosis umbellatis, calycibus glabris, foliis oblongo-lanceolatis amplexicaulibus denticulatis subsinuatis.* *Willd. sp. pl.* 3. p. 1514.
Icon. Fl. dan. 682. *Curt. fl. lond.* 58.
 A common weed in most gardens and fields. ☉. July
 —Sept. *v. v.* Flowers yellow. *oleraceus.*
3. *S. pedunculis hirsutis nudis, floribus paniculatis, foliis lyratis basi cordatis subtus hirtis.* *Willd. sp. pl.* 3. p. 1519. *macrophyllus.*
S. canadensis. Frælich. in usteri annal. 1. p. 29.
Chondrilla sylvestris alta. Gronov. virg. 115.
 In shady low grounds, near springs: Pennsylvania to Carolina. ♀. Aug. Sept. *v. v.* From four to seven feet high; flowers blue, the size of *Cichorium Intybus*; root tuberous.
4. *S. pedunculis hirsutis nudis, floribus racemosis bracteatis, foliis runcinatis basi sagittatis glabris subtus glaucis.* *Willd. sp. pl.* 3. p. 1519. *alpinus.*
S. montanus. Lam. encycl. 3. p. 401.
S. cæruleus. Smith fl. brit. 2. p. 815.
S. canadensis. Sp. pl. 1115.
Hieracium cæruleum. Scop. fl. carn. n. 976.
Icon. Fl. dan. 182.
 In Canada. ♀. Aug. Sept. *v. s.* Flowers blue, and sometimes white.
5. *S. pedunculis squamosis, floribus racemosis, foliis runcinatis acuminatis, caule paniculato-virgato.* *Willd. sp. pl.* 3. p. 1520. *leucophæus.*
S. spicatus. Lam. encycl. 3. p. 401.
 On the borders of woods, on road sides: New England to Virginia. ♂. July—Sept. *v. v.* Flowers small, white, tinged with blue.
6. *S. pedunculis subsquamosis, floribus paniculatis, foliis lyrato-runcinatis denticulatis petiolatis.*—*Willd. sp. pl.* 3. p. 1520. *floridanus.*

On road sides, in shady woods: Virginia and Carolina. ♂. July—Sept. *v. v.* Flowers very small, blue. This plant has been used for curing the bite of the rattlesnake, in the same manner as *Prenanthes Serpentaria*, and is known by the name of *Gall of the Earth*.

- acuminatus.* 7. *S. pedunculis subsquamosis, floribus paniculatis, foliis radicalibus subruncinatis, caulinis ovatis acuminatis petiolatis medio denticulatis.*—*Willd. sp. pl.* 3. p. 1521.

Lactuca villosa. Jacq. hort. schœnb. 3. t. 367?

In low shady places: Pennsylvania to Virginia. ♂. Aug. Sept. *v. v.* Flowers small, blue.

- pallidus.* 8. *S. racemo composito terminali, foliis lanceolato-ensiformibus amplexicaulibus dentatis.* *Willd. sp. pl.* 3. p. 1521.

Lactuca canadensis. Sp. pl. 1119.

Icon. *Rob. ic.* 148 & 151.

On road sides and in woods: Canada to New England.

♀. July—Sept. *v. v.* Flowers small, yellow.

- pulchellus.* 9. *S. pedunculis squamosis, floribus corymboso-racemosis, foliis caulinis cordato-amplexicaulibus ovato-oblongis acutis integerrimis glabris.*

On the banks of the Missouri. ♀. Sept. *v. s.* Flowers large, beautiful blue.

601. HIERACIUM. *Gen. pl.* 1238.

- pusillum.* 1. *H. pusillum, villosissimum; caule simplici erecto unifloro remote subbifoliato, foliis lanceolatis attenuatis acutis integerrimis, caulinis linearibus, calyce villosissimo.*—*Willd. sp. pl.* 3. 1561.

In Labrador. *Colmaster.* ♀. July. *v. s. in Herb. Dickson.* A very small plant; flowers, as in all the following species, yellow, the size of a common daisy. It strongly resembles *H. alpinum*, and is probably only a diminutive variety thereof.

- venosum.* 2. *H. scapo nudo corymboso-paniculato glabro, pedicellis filiformibus, foliis obovato-lanceolatis supra rariter pilosis, subtus nudis margine ciliatis glanduloso denticulatis, venis coloratis, calycibus glabris.*—*Willd. sp. pl.* 3. p. 157C.

In shady fertile woods: Canada to Carolina. ♀. June—Aug. *v. v.* Flowers middle size, of a beautiful

yellow; the light green leaves are elegantly marked with blood-red veins. It is known by the name of *Poor Robin's Plantain*, and thought to possess considerable medicinal powers.

3. *H. scapo folioso corymboso-paniculato, calycibus pedunculisque glanduloso-pilosis, foliis obovatis obtusis integerrimis, supra rariter strigoso-villosis, nervo medio subtus villosissimo.*—*Willd. sp. pl. 3. p. 1570.* *Gronovii.*

α. *H. caule subnifoliato, panicula subfastigiata.* *Mich. fl. amer. 2. p. 87.* nudicaule.

β. *H. caule parce folioso, panicula oblonga.* *Mich. l. c.* foliosum.
H. marianum. Willd. sp. pl. 3. p. 1572.

Icon. *Pluk. mant. t. 320. f. 2.*

In woods and on dry hills: Canada to Carolina. *℥.*
July, Aug. *v. v.* Flowers small.

4. *H. pilosum; caule erecto simplici folioso, corymbo paucifloro, foliis oblongo-lanceolatis attenuatis inferne paucidentatis, radicalibus petiolatis.*—*Willd. sp. pl. 3. p. 1577?* *molle.*

Icon. *Jacq. austr. t. 119.*

In Labrador. *Colnaster. ℥.* July—Sept. *v. s. in Herb. Dickson.* Flowers middle size.

5. *H. glabriusculum; caule erecto folioso paniculato inferne albo-lanato, pedicellis capillaribus, foliis lanceolatis nudis dentatis membranaceis.*—*Willd. sp. pl. 3. p. 1572.* *paniculatum.*

In shady woods: Canada to Carolina; principally on the mountains. *℥.* July—Sept. *v. v.* Flowers very small.

6. *H. caule erecto multifloro glabro, foliis subsessilibus lanceolatis acuminatis exersum argute dentatis, pedunculis in apice caulis alternis subantheris tomentosis.*—*Willd. sp. pl. 3. p. 1588.* *Kalmii.*

In Pennsylvania. *Kalm. +.* Flowers small, upright, leaves small. It is singular, that in no part of North America could I find a plant answering to this description given by Linnæus.

7. *H. caule erecto simplici villosa, foliis sessilibus lanceolatis acutis glabris subtus pilosis margine divaricato-argute-dentatis versus apicem integerrimis: dentibus divaricatis, panicula subcorymbosa, calycibus pedunculisque tomentosis.*—*Lambert. herb. ms.* *virgatum.*

H. canadense. Mich. fl. amer. 2. p. 86?

In the western part of New York and Canada. *℥.*

July—Sept. *v. v.*; *v. s. in Herb. Lambert.* Flowers middle size.

- fasciculatum.* 8. *H. glabriusculum*; caule erecto folioso simplici glabro; foliis sessilibus oblongis acutis argute-dentatis: dentibus elongatis, ramis paniculæ divaricatis brevibus, pedicellis subfasciculatis pubescentibus.

In Canada. *Masson. M. v. s. in Herb. Lambert.* A tall robust plant; flowers middle size.

- scabrum.* 9. *H. hirsutissimum*; caule erecto folioso hispido punctis fuscis scaberrimo, foliis oblongo-ovatis integris utrinque hirsutis, panicula simpliciuscula multiflora calycibusque glanduloso-hispidis, pedicellis brevibus divaricatis.—*Mich. fl. amer. 2. p. 86.*

In woods, in shady, rocky situations: Pennsylvania. *M.* Aug. Sept. *v. v.* From three to five feet high; flowers small.

- macrophyllum.* 10. *H. altissimum*; caule erecto folioso hispido sulcato, foliis cordato-semiamplexicaulibus ovato-oblongis remote grosse-dentatis nudiusculis, nervis venisque subtus pubescentibus, panicula divaricato-corymbosa, pedunculis elongatis nudis calycibusque glabris.

In Canada. *M. v. s. in Herb. Lambert.* A very robust plant; leaves the largest of the genus; flowers large.

602. KRIGIA. *Gen. pl. 1244.*

- virginica.* 1. *K. pusilla*; foliis lyratis glaucis glabriusculis margine ciliatis, scapo 1-floro foliis duplo altiore, calyce sub-8-phyllo.—*Willd. sp. pl. 3. p. 1618.*

Hyoseris virginica. Sp. pl. 1138.

Icon. Lam. journ. hist. nat. 1. t. 12.

In pastures, grassy hills, fields, and road sides: Canada to Florida. ☉. May—July. *v. v.* Flowers deep yellow, small.

603. HYOSERIS. *Gen. pl. 1242.*

- montana.* 1. *H. glaberrima*, procumbens; foliis lanceolatis integerrimis, scapo 1-floro.—*Mich. fl. amer. 2. p. 87.*

In the mountains of Carolina. *Michaux. +.*

- angustifolia.* 2. *H. foliis lineari-lanceolatis sensim acutissimis glabellis, dentibus rarioribus exertis, scapo 1-floro. Mich. fl. amer. 3. p. 87.*

Hyoseris major. Walt. fl. car. 194.

In fields and pastures. Virginia and Carolina. ☉. ♂.
July, Aug. *v. v.* Flowers large, bright yellow.

3. *H. foliis lyratis basi acutis superne dilatatis apice truncatis hirsutis, scapis 1-floris.*—*Walt. fl. car.* 194. *caroliniana.*
In Carolina. *Walter.* +.

604. TROXIMON. *Gært. carp.* 2. p. 360. *Pers. syn.* 2. p. 360.

1. *T. scapo unifloro, calycinis foliolis imbricatis cuspidatis, foliis linearibus integerrimis utrinque glaucis.* *glaucum.*
On the banks of the Missouri. ♂. *v. s.*; *v. v. in Hortis.* Flowers bright yellow.

2. *T. glabrum, glaucum; caule erecto 2-3-fido subnudo, foliis glabris, radicalibus sublyratis, caulinis amplexicaulibus lanceolatis integerrimis glabris.*—*Pers. syn.* 2. p. 260. *virginicum.*

Hyoseris amplexicaulis. Mich. fl. amer. 2. p. 87.

Hyoseris prenanthoides. Willd. sp. pl. 3. p. 1615.

Hyoseris biflora. Walt. fl. car. 194.

Tragopogon virginicum. Sp. pl. p. 1111.

In meadows and moist shady woods: Pennsylvania to Carolina. ♀. July, Aug. *v. v.* About a foot high; flowers handsome, yellow.

605. STOKESIA. *L'Herit. sert. angl.* 27.

1. *S. foliis lanceolatis, caule folioso, pedunculis axillaribus 1-floris.*—*Willd. sp. pl.* 3. p. 1703. *cyanea.*
Carthamus lævis. Will. kew. p. 57. t. 5.
Icon. *L'Herit. l. c. t.* 38.
In South Carolina. ♀. *v. s. in Herb. Banks.* Flowers large, purple, very handsome.

606. ARCTIUM. *Gen. pl.* 1253.

1. *A. foliis caulinis cordatis petiolatis denticulatis, floribus paniculatis globosis, calycibus lævibus.*—*Willd. sp. pl.* 3. p. 1631. *Lappz.*
Icon. *Fl. dan.* 642. *Engl. bot.* 1228.
On road sides, among rubbish, and in cultivated grounds; frequent. ♂. July, Aug. *v. v.* Flowers purple.
Common *Burdock.* Has probably been introduced.

607. CNICUS. *Gen. pl.* 1255.

- lanceolatus.* 1. *C. foliis decurrentibus hispidis pinnatifidis, lacinii bilobis divaricatis spinosis, calycibus ovatis arachnoideo-pubescentibus, squamis lanceolatis spinosis patentibus.* *Willd. sp. pl.* 3. p. 1666.
Carduus lanceolatus. *Sp. pl.* 1149.
 On road sides; common every where. ♂. June—Sept. *v. v.* Flowers large, purple.
- altissimus.* 2. *C. foliis sessilibus oblongo-lanceolatis scabris subtus tomentosis dentatis ciliatis, radicalibus pinnatifidis, calycibus bracteatis ovatis, squamis ovato-lanceolatis spinosis adpressis.* *Willd. sp. pl.* 3. p. 1671.
Carduus altissimus. *Sp. pl.* 1154.
Carduus virginianus. *Walt. fl. car.* 195.
Cirsium repandum. *Mich. fl. amer.* 2. p. 89.
Cirsium altissimum. *Gron. fl. virg.* 117.
 In old fields: Virginia and Carolina. ♀. July—Sept. *v. v.* Flowers large, purple.
- arvensis.* 3. *C. foliis sessilibus pinnatifidis glabriusculis ciliatis spinosis, caule paniculato, calycibus ovatis mucronatis, squamis lato-lanceolatis adpressis margine lanatis.*
Carduus arvensis. *Smith. fl. brit.* 2. p. 850.
Serratula arvensis. *Willd. sp. pl.* 3. p. 1646.
Icon. Fl. dan. 644. *Engl. bot.* 975. *Mart. fl. rust.* 132.
 In fields and on road sides: Canada and New England.
 ♀. July—Sept. *v. v.* Flowers small, purple. It is one of the most troublesome weeds, and when once introduced on a plantation it is almost impossible to get rid of it.
- muticus.* 4. *C. foliis omnibus pinnatifidis subtus lanuginosis: lacinii spinulosis sublanceolatis acutis, ramis in summitate pluribus rariusculis unifloris, calyce globoso, squamis muticis.*
Cirsium muticum. *Mich. fl. amer.* 2. p. 89.
Carduus carolinianus. *Walt. fl. car.* 195.
 In the mountains of Virginia and Carolina. ♂. July—Sept. *v. v.* Flowers middle-sized, purple.
- virginianus.* 5. *C. simpliciusculus; foliis sessilibus lanceolatis subtus cano-tomentosis remote dentatis, dentibus spinosis, floribus solitariis, calyce globoso, squamis mucronatis.*
Carduus virginianus. *Willd. sp. pl.* 3. p. 1659.
Cirsium virginianum. *Mich. fl. amer.* 2. p. 90.
Icon. Jacq. obs. bot. 4. t. 99.

In the mountains of Virginia and Carolina. 24. July—Sept. *v. v.* Flowers purple.

6. *C. elatius*; foliis sessilibus pinnatifidis acute incisus spinosissimis, involucri terminali unifloro polyphylo: foliolis geminatim spinosissimis, calycibus inermibus. *Serratula discolor. Lam. encycl. 6. p. 565.*
Cirsium horridulum. Mich. fl. amer. 2. p. 90.
Carduus spinosissimus. Walt. fl. car. 194.

horridulus.

On the banks of rivers and borders of woods: Pennsylvania to Carolina. 24. July—Sept. *v. v.* Very tall; flowers large, pale yellow.

608. CARDUUS. *Gen. pl. 1254.*

1. *C. inermis*; foliis decurrentibus lanceolatis pinnatifido-pectinatis, pedunculis terminalibus longissimis unifloris subaphyllis, floribus defloratis cernuis calycinis squamis linearibus patulis.—*Willd. sp. pl. 3. p. 1655.*
 In Pennsylvania. ♂. +. Flowers purple, the size of *Arctium Lappa*. It probably is a species of *Cnicus*.

pectinatus.

609. LIATRIS. *Gen. pl. 1263.*

* *Spicatae seu racemosae; bulbosae.*

1. *L. caule simplici, elato*; foliis linearibus glabris basi ciliatis nervosis et punctatis, spica longissima, floribus sessilibus, squamis calycinis lineari-oblongis obtusis appressis.—*Mich. fl. amer. 2. p. 91.*

macrostachya.

L. spicata. Willd. sp. pl. 3. p. 1636.

Anonymos graminifolius. Walt. fl. car. 197.

Serratula spicata. Sp. pl. 1147.

Icon. Bot. rep. 401. Pluk. alm. t. 424. f. 6.

In natural meadows: Pennsylvania to Carolina. 24. Aug.—Oct. *v. v.* From three to six feet high; flowers, as all the following species, purple, in very long and close spikes.

2. *L. caule simplici hirsuto, foliis strictis angusto-linearibus pubescentibus, spica longa, floribus confertim sessilibus, calycibus appressis superne squarrosis.*—*Mich. fl. amer. 2. p. 91.*

pyncnostachya.

Anonymos pilosa. Walt. fl. car. 197.

Icon. Dill. elth. t. 72. f. 83.

In mountain meadows: Virginia, Illinois, and Carolina. 24. Aug.—Oct. *v. v.* From two to four feet high; flowers smaller than No. 1.

- graminifolia*. 3. *L.* caule simplici glabro, foliis linearibus longissimis glabris nervosis margine scabriusculis costa media interne subpilis, floribus spicatis remotiusculis subsessilibus, calycinis squamis oblongis obtusis mucronatis ciliatis appressis, interioribus coloratis.—*Willd. sp. pl.* 3. p. 1636. *exclus. syn. Welteri.*
Serratula compta. *Herb. Banks. mss.*
 In South Carolina and Georgia. *Bartram.* 4. Aug.—Oct. *v. v.* About two or three feet high; flowers the size of No. 2; leaves very long and narrow.
- heterophylla*. 4. *L.* caule simplici glabro, foliis lanceolatis glabris lævibus: superioribus lineari-lanceolatis multoties minoribus, calycibus spicatis brevissime pedunculatis subsquarrosis: squamis lanceolatis acutis nudis.—*Willd. enum.* 503.
L. varia. *Herb. Banks. mss.*
 In South Carolina and Georgia. *Fraser. Bartram.* 4. Aug.—Oct. *v. s. in Herb. Banks. nec non Lambert.*
 Flowers the size of the preceding.
- aspera*. 5. *L.* caule subramoso scabro-pubescente, foliis lineari-lanceolatis asperrimis, calycibus brevibus spicatis distincte alternis solitariis sessilibus: squamis rotundato-obtusis conniventibus.—*Mich. fl. amer.* 2. p. 92.
Anonymos ramosus. *Walt. fl. car.* 198.
 In South Carolina and Illinois. *Walter. Michaux.* 4. Aug.—Oct. *v. s.* Flowers larger than any of the foregoing species.
- cylindræa*. 6. *L.* gracilis, tota hirsuta; foliis gramineis, spica rariflora, calycibus subsessilibus cylindræis paucifloris, squamis apice rotundatis abrupte mucronatis. *Mich. fl. amer.* 2. p. 93.
 In woods and meadows of South Carolina and Illinois. 4. Aug. Sept. *v. s. in Herb. Fraser.*
- pilosa*. 7. *L.* caule simplici pubescente, foliis linearibus pilosis ciliatis, calycibus racemosis laxiusculis: squamis lineari-oblongis obtusiusculis, pedicellis bracteolatis.—*Willd. sp. pl.* 3. p. 1636.
Anonymos ciliatus. *Walt. fl. car.* 197.
 In pine-barrens and sandy fields: New Jersey to Carolina. 4. Sept.—Nov. *v. v.* A low species; flowers the size of No. 2.
- gracilis*. 8. *L.* caule simplici glabro, foliis linearibus nudis, calycibus racemosis subglobosis: squamis oblongis obtusiusculis appressis, pedicellis elongatis patentibus squamoso-bracteolatis.

In Georgia. *Bartram*. Aug.—Oct. *v. s. in Herb. Banks*.
Flowers smaller than any preceding species.

9. *L. caule simplici villosa, foliis linearibus subfalcatis scabro-punctatis, spica subfoliosa, pedicellis brevibus, calycinis squamis intimis ligulatis coloratis.*—*Willd. sp. pl.* 3. p. 1635.

elegans.

Serratula speciosa. Ait. kew. 3. p. 138.

Stæbelina elegans. Walt. fl. car. 202.

Eupatorium speciosum. Vent. hort. cels. 79.

In sandy fields : Carolina to Florida. 24. Sept.—Nov. *v. v.* A beautiful perennial ; flowers in long close spikes, purplish-red.

10. *L. caule simplici pubescente, foliis lævibus : inferioribus petiolatis lato-lanceolatis, superioribus lanceolato-linearibus, calycibus racemosis solitariis alternis subglobosis : squamis ovatis acutiusculis erectis, margine ciliatis.*—*Mich. fl. amer.* 2. p. 92.

sphæroidea.

On high mountains of Virginia and Carolina. 24. Aug.—Oct. *v. v.* Flowers large and handsome.

11. *L. caule simplici subpubescente, foliis lanceolatis utrinque attenuatis glabris margine scabris, calycibus racemosis alternis distantibus inferne squarrosis ; squamis spatulatis margine membranaceo coloratis.*—*Willd. sp. pl.* 3. p. 1635.

scariosa.

L. squarrosa. Mich. fl. amer. 2. p. 92.

Serratula scariosa. Sp. pl. 1147.

Icon. *Pluk alm. t.* 177. f. 4.

In mountain meadows : Virginia to Carolina. 24. Aug.—Oct. *v. v.* Flowers the size of No. 10.

12. *L. caule simplici pubescente, foliis longissime linearibus nervosis margine scabriusculis, racemis paucifloris foliosis, calycinis squamis superne foliaceis lanceolatis rigidis patentibus.*—*Willd. sp. pl.* 3. p. 1634.

squarrosa.

Serratula squarrosa. Hort. cliff. 392.

Pteronia caroliniana. Walt. fl. car. 202.

Icon. *Dill. elth. t.* 71. f. 82.

In sandy woods and fields : Virginia, Kentucky, and Carolina. 24. Sept. Oct. *v. v.* Flowers large, very handsome. This and the preceding are known among the inhabitants of those countries by the name of *Rattlesnake's Master*. In case of being bit by this horrible animal, they bruise the bulbs of this plant and apply it to the wound, while, at the same time, they make

a decoction of it in milk, which is taken inwardly, in the same manner as I have mentioned under *Prenanthes serpentaria*.

**** *Paniculatæ seu corymbosæ ; non bulbosæ.***

- pauciflora.* 13. *L.* caule simplici glabro ; foliis linearibus, panicula virgata foliosa, ramis brevibus paucifloris, calycibus subsessilibus secundis 3—5-floris : squamis erectis lanceolatis acutis glabris.
In Georgia. *Bartram.* *Ų. v. s. in Herb. Banks.* Flowers small, the size of No. 4.
- paniculata.* 14. *L.* caule simplici panicula calycibusque piloso-viscosis, foliis inferioribus lanceolatis attenuatis nervosis glabris : caulinis minoribus sessilibus, panicula coarctata fasciculata, calycibus sub-5-floris : squamis lanceolatis acutiusculis.—*Willd. sp. pl.* 3. p. 1637.
Anonymos paniculatus. Walt. fl. car. 198.
In pine-barrens : Virginia to Florida. *Ų.* Aug.—Oct. *v. s. in Herb. Enslen.* Flowers the smallest of all the species here enumerated.
- odoratissima.* 15. *L.* glaberrima ; caule simplici ; foliis radicalibus oblongis, caulinis amplexicaulibus, panicula corymbosa laxo-divaricata, calycibus sub-8-floris : squamis lanceolatis obtusiusculis.—*Willd. sp. pl.* 3. p. 1637.
Anonymos odoratissimus. Walt. fl. car. 198.
Icon. Bot. rep. 633.
In open swamps : Carolina to Florida. *Ų.* Sept. Oct. *v. v.* Flowers a little larger than the preceding. It is generally called *Carolina Vanilla-plant*. The leaves, when dry, give a very agreeable scent, resembling somewhat that of *Vanilla*, which they maintain for years if kept dry and inclosed.
- tomentosa.* 16. *L.* caule simplicissimo foliisque cuneato-lanceolatis hirsutis, corymbo paucifloro depresso divaricato, ramis 1—2-floris, calycibus tomentosis : squamis ovatis acutis.—*Mich. fl. amer.* 2. p. 93.
In open swamps : Virginia and North Carolina. *Ų.* Aug.—Oct. *v. v.* About eighteen inches high ; flowers the size of No. 1.
- bellidifolia.* 17. *L.* pumila, glabella ; foliis cuneato-oblancoelatis, corymbo inæquali, floribus omnibus longiuscule pedicellatis, calycinis squamis oblongo-obovalibus obtusis.
Mich. fl. amer. 2. p. 93.

Anonymos uniflorus. *Walt. fl. car.* 198.

In dry gravelly fields of North Carolina. *Michaux.*
℥. +.

610. *VERNONIA.* *Gen. pl.* 1262.

1. *V. caule simplici nudiusculo, foliis serratis: radicalibus oblongo-ovatis, caulinis lanceolatis, corymbo paniculato.*—*Mich. fl. amer.* 2. p. 94. *oligophylla.*
Chrysocoma aculis. *Walt. fl. car.* 196.
α. V. utroque flore pedunculato. *verna.*
β. V. altero flore sessili. *autumnalis.*
 In South Carolina *℥. v. s. in Herb. Walter.* Flowers, as all the following, purple.
2. *V. caule simplici, foliis crebris longe angusteqne linearibus subintegris, corymbo subumbellato, calycinis squamis rigide mucronatis.* *Mich. fl. amer.* 2. p. 94. *angustifolia.*
Chrysocoma angustifolia. *Walt. fl. car.* 196
 In barren sandy woods: Virginia to Georgia. *℥. Aug. Sept. v. s. in Herb. Engelm.* Flowers the size and figure of *V. præalta.*
3. *V. foliis longo-linearibus rariter serratis, floribus corymbosis erecto approximatis, calycinibus ovoideis lævibus, squamis mucicis.* *Mich. fl. amer.* 2 p. 85. *fasciculata.*
 In natural meadows: Illinois *Michaux.* Virginia. *t. h. ℥ Aug.—Oct. v. v.* Flowers small.
4. *V. caule altissimo anguloso dense pubescente, foliis crebris lanceolatis acute serratis subtus pubescentibus, corymbo fastigiato, calycinis squamis ovatis acutis mucicis*—*Willd. sp. pl.* 3. p. 1633. *præalta.*
Serratula præalta. *Sp. pl.* 1146.
Chrysocoma tomentosa. *Walt. fl. car.* 196.
Icon. Dill. eth. t. 264. *f.* 343. *Mill. ic.* 234. *Pluk. alm. t.* 280. *f.* 6.
 On road sides and borders of woods: New England to Carolina. *℥. Aug.—Oct. v. v.* A tall rough-looking plant.
5. *V. altissima; foliis crebris lanceolatis serrulatis scabris, corymbo fastigiato, calycinis squamis apice filiformibus.*—*Willd. sp. pl.* 3 p. 1632. *noveboracensis.*
Serratula noveboracensis. *Hort. cliff.* 3; 2.
Chrysocoma gigantea. *Walt. fl. car.* 196.
Icon. Dill. eth. t. 263. *f.* 342. *Pluk. alm. t.* 109. *f.* 3.
 On road sides and old pastures: Canada to Carolina. *℥. Aug.—Oct. v. v.* About five feet high.

611. KUHNIA. *Gen. pl.* 1272.Critonia. *Gært. carp.* 2. p. 411.Dalea. *Brown. jam.* 314.

- eupatorioides.* 1. *K. glabra*; foliis petiolatis lato-lanceolatis serratis, corymbo terminali paucifloro coarctato.—*Willd. sp. pl.* 3. p. 1772.

Eupatorium alternifolium. *Ard. spec.* 2. p. 40. t. 20.Icon. *Linn. fil. dec.* t. 11. *Pluk. alm.* t. 87. f. 2.

In shady woods, about rocks: Pennsylvania to Virginia.

♀. Aug. Sept. *v. v.* Flowers white; resembles an *Eupatorium* exceedingly.

- Critonia.* 2. *K. pubescens*; foliis angusto-lanceolatis inferne subdentatis petiolatis subtus punctatis: superioribus linearibus integerrimis sessilibus, panicula terminali divaricata.—*Willd. sp. pl.* 3. p. 1773.

Critonia Kuhnia. *Mich. fl. amer.* 2. p. 101.Icon. *Gært. carp.* 2. t. 174. f. 7.

On high mountains of Pennsylvania and Virginia. ♀.

Aug. Sept. *v. v.* Flowers pale yellow.

612. EUPATORIUM. *Gen. pl.* 1272.* *Calycibus* 3—5-floris.

- fœniculaceum.* 1. *E. caule* paniculato, foliis glabris inferioribus pinnatis, superioribus fasciculatis, omnibus filiformibus.—*Willd. sp. pl.* 3. p. 1750.

E. fœniculoides. *Walt. fl. car.* 199.Chrysocoma capillacea. *Mich. fl. amer.* 2. p. 101.

In fields and on road sides, near the sea-coast: Virginia to Florida. ♀. Aug.—Oct. *v. v.* From two to five feet high, resembling an *Artemisia* very much; flowers in great abundance, small, pale yellow.

- coronopifolium.* 2. *E. caule* paniculato, foliis infimis pinnatifidis, reliquis indivisis fasciculatis linearibus integerrimis. *Willd. sp. pl.* 3. p. 1750.

E. compositifolium. *Walt. fl. car.* 199.Chrysocoma coronopifolia. *Mich. fl. amer.* 2. p. 102.

In dry woods, on road sides: Carolina. ♀. Aug. Sept. *v. v.* Flowers white, double the size of the preceding.

- hyssopifolium.* 3. *E. foliis* oppositis subverticillatis linearibus integerrimis pubescentibus trinerviis punctatis, radicalibus subdentatis. *Willd. sp. pl.* 3. p. 1749.

Icon. *Dill. el'h t.* 115. *f.* 140. *Pluk. alm. t.* 88. *f.* 2.

In dry pine-barrens and sandy fields : New Jersey to Carolina. *℥.* Aug.—Oct. *v. v.* About a foot high ; leaves small : flowers white, as all the following are, unless a different colour is mentioned.

4. *E. foliis lineari lanceolatis denticulatis obsolete 3-nervi- linearifolium.*
bus pubescentibus, inferioribus oppositis verticillatis,
superioribus alternis. *Willd. sp. pl.* 3. *p.* 1750. *Walt.*
fl. car. 199

In low sandy fields : New Jersey to Carolina. *℥.* Aug.—Nov. *v. v.* The calyx is covered with resinous dots.

5. *E. foliis sessilibus amplexicaulibus distinctis ovato-lan- sessilifolium.*
ceolatis basi rotundatis serratis glaberrimis, caule gla-
briusculo. *Willd. sp. pl.* 3. *p.* 1751.

About rocks, particularly lime-stone, and throughout the Allegany mountains. *℥.* Aug. Sept. *v. v.* About two feet high ; very smooth.

6. *E. foliis sessilibus amplexicaulibus distinctis lanceolatis truncatum.*
basi truncatis serratis glabriusculis, caule pubescente.
Willd. sp. pl. 3. *p.* 1751.

In shady woods, about rocks : Pennsylvania to Virginia. *℥.* July—Oct. *v. v.* Resembles the preceding species

7. *E. foliis subsessilibus oblongo-lanceolatis scabriusculis album.*
serratis, calycinis squamis interioribus elongatis lanceo-
latis scariosis coloratis. *Willd. sp. pl.* 3. *p.* 1752.

In woods and swamps : Pennsylvania and Virginia. *℥.* Aug.—Oct. *v. v.* About eighteen inches high.

8. *E. foliis sessilibus distinctis oblongo-lanceolatis scabris lanceolatum.*
basi profunde serratis, calycinis squamis concoloribus.
—*Willd. sp. pl.* 3. *p.* 1752.

In low copses and dry swamps : Pennsylvania to Virginia. *℥.* Aug.—Nov. *v. v.* Resembles the preceding species.

9. *E. foliis sessilibus distinctis ovatis scabris, superioribus teucrifolium.*
basi grosse serratis, summis integerrimis. *Willd. sp.*
pl. 3. *p.* 1753.

E. pilosum. *Walt. fl. car.* 199.

E. verbenæfolium. *Rich. fl. amer.* 2. *p.* 98.

Icon. *Willd. hort. berol.* 32

In swamps and low woods : New England to Carolina. *℥.* Aug.—Nov. *v. v.* About two feet high.

- cuneifolium*. 10. E. foliis petiolatis obovato-lanceolatis apice subserratis triplinerviis utrinque pubescentibus. *Willd. sp. pl.* 3. p. 1753.
E. Marrubium. *Walt. fl. car.* 199.
In low sandy fields : Virginia and Carolina. $\mathcal{V}$. Aug.—Oct. *v. v.* Not above a foot high.
- melissoides*. 11. E. foliis petiolatis ovatis obtusiusculis obtuse serratis venosis glabriusculis. *Willd. sp. pl.* 3. p. 1754.
In Pennsylvania. $\mathcal{V}$. Aug.—Oct. +. Resembles No. 9; but the leaves are smaller, petiolated, and smooth.
- rotundifolium*. 12. E. foliis sessilibus distinctis subrotundo-cordatis obtuse serratis venosis, calycinis squamis acuminatis.—*Willd. sp. pl.* 3. p. 1754.
Icon. *Pluk. alm. t.* 88. f. 4.
In swamps and shady woods : Canada to Carolina. $\mathcal{V}$. Aug.—Nov. *v. v.* About a foot or eighteen inches high.
- pubescens*. 13. E. foliis sessilibus distinctis ovatis scabris venosis, inferioribus duplicato-serratis, superioribus subserratis, caule paniculato pubescente, ramis fastigiatis. *Willd. sp. pl.* 3. p. 1755.
E. glandulosum. *Mich. fl. amer.* 2. p. 98?
In dry sandy woods : New Jersey to Carolina. $\mathcal{V}$. Aug.—Oct. *v. v.* Not above two feet high.
- ceanothifolium*. 14. E. foliis petiolatis ovatis acuminatis dentatis triplinerviis glabris. *Willd. sp. pl.* 3. p. 1755.
In shady woods, about rocks : New York to Virginia. $\mathcal{V}$. Aug.—Nov. *v. v.* Resembles *Ceanothus americanus* in its foliage exceedingly.
- altissimum*. 15. E. foliis subsessilibus lanceolatis 3-nerviis utrinque attenuatis pubescentibus, inferioribus medio serratis. *Willd. sp. pl.* 3. p. 1754.
Icon. *Jacq. hort. vind.* 164.
In low sandy woods : Pennsylvania and Virginia, and on the banks of the Mississippi and Missouri. $\mathcal{V}$. Aug.—Oct. *v. v.* From three to seven feet high.
- amœnum*. 16. E. foliis brevi-petiolatis oppositis ternatisque lanceolato-oblongis utrinque acutis serratis glabriusculis subrugosis subtus reticulato-venosis, panicula corymboso-fasciculata confertiflora, calycinis squamis oblongis acutiusculis coloratis.
On the New Jersey mountains. $\mathcal{V}$. Sept. Oct. *v. v.*

About two feet high ; stem solid, smooth, purple ; peduncles tomentose ; flowers small, but very closely collected in a corymbose panicle, of a beautiful pale purple inclining to flesh colour.

17. *E. foliis petiolatis ternis quaternisve ovatis utrinque attenuatis serratis scabriusculis.* *Willd. sp. pl. 3. p. 1755.* *trifoliatum.*

In swamps and on the banks of rivers : New York to Virginia. *℥.* Aug.—Oct. *v. v.* A tall plant without branches.

18. *E. glabellum ; foliis quaternis ovali-lanceolatis utrinque acuminate subfalcatis rariter serratis. squamis calycinis extimis brevibus ovalibus.*—*Mich. fl. amer. 2. p. 99.* *falcatum.*

On the banks of the Ohio and Scioto rivers. *Michaux.* *℥. +.* A tall plant, resembling *E. altum*.

*** Calycibus plus quam 5-floris.*

19. *E. foliis petiolatis quaternis quinisve ovato-lanceolatis serratis rugoso-venosis scabriusculis, caule fistuloso.* *Willd. sp. pl. 3. p. 1759.* *purpureum.*

Icon. *Rob. ic. 217. Corn. canad. t. 72. Moris. hist. 3. s. 7. t. 13. f. 4. Dod. mem. t. 217.*

In swamps, wet woods, and on the banks of rivulets : Canada to Virginia. *℥.* Aug.—Oct. *v. v.* Very tall ; flowers purple.

20. *E. foliis petiolatis quaternis quinisve ovato-lanceolatis inæqualiter serratis subtus pubescentibus, caule solido sulcato.* *Willd. sp. pl. 3. p. 1760.* *maculatum.*

Icon. *Herm. parad. t. 158. Moris. hist. 3. s. 7. t. 18. f. 3.*

In swamps and near ponds and rivulets : Canada to Carolina. *℥.* Aug.—Oct. *v. v.* Stem marked with purple lines, not so tall as the preceding species ; flowers purple.

21. *E. foliis petiolatis quaternis quinisve ovatis acuminatis serratis utrinque scabris, caule solido tereti.* *Willd. enum. 853.* *punctatum.*

E. maculatum. Hortul.

In the Blue-mountains : New Jersey and Pennsylvania. *℥.* Aug.—Oct. *v. v.* Not so tall as the preceding ; flowers purple, very ornamental.

22. *E. foliis petiolatis ternis quaternisve ovato-lanceolatis, basi cuneatis inæqualiter serratis glabriusculis, caule solido lævi.* *Willd. sp. pl. 3. p. 1760.* *verticillatum.*

On the banks of rivers and in swamps; frequent: New York to Carolina. *v. v.* From four to six feet high; flowers purple. It differs from No. 18 in its stem, broader and smoother leaves, and white calyces; from No. 19 in its stem and smooth leaves.

perfoliatum. 23. *E. foliis connato-perfoliatis oblongis sursum angustatis serratis rugosis subtus tomentosis, caule villosa.*—*Willd. sp. pl.* 3. p. 1761.

E. connatum. *Mich. fl. amer.* 2. p. 99.

Icon. *Pluk. alm. t.* 87. f. 6.

In low meadows and about springs: Canada to Florida.

24. Aug.—Oct. *v. v.* From two to three feet high; flowers white. The whole plant is exceedingly bitter, and has been used for ages past by the natives and inhabitants in intermitting fevers. It is generally known by the name of *Thorough-wort* or *Bone-set*. I have stated a case of its efficacy in those diseases in a letter to William Royston, Esq. who inserted it in the Medical and Physical Journal. In which I stated the benefits derived from this plant, by myself and others during my stay in the neighbourhood of lake Ontario, when both the influenza and lake fever (similar to the yellow fever) were raging among the inhabitants. It is generally used as a decoction, or, which I consider the more effectual way, as an infusion in gin or rum.

cœlestinum. 24. *E. foliis petiolatis cordato-ovatis obtusiusculis triplinerviis obtuse serratis, floribus corymbosis.* *Willd. sp. pl.* 3. p. 1764.

Icon. *Dill. elth. t.* 114. f. 159.

In mountain-woods of Virginia to Carolina. 24. Aug.

—Oct. *v. v.* Flowers large, beautiful blue.

aromaticum. 25. *E. foliis petiolatis ovatis acutis trinerviis obtuse-serratis glabris, caule superne paniculato, floribus corymbosis, calycibus simplicibus.* *Willd. sp. pl.* 3. p. 1765.

Icon. *Pluk. alm. t.* 88 f. 3.

In woods and on the banks of rivers: Pennsylvania to Florida. 24 Aug.—Oct. *v. v.* Flowers large, clear white, sweet-scented.

ageratoides. 26. *E. foliis petiolatis ovatis acuminatis trinerviis inæqualiter grosse serratis glabris, corymbo multifloro divaricato, calycibus subsimplicibus.* *Willd. sp. pl.* 3. p. 1765.

E. urticæfolium. *Mich. fl. amer.* 2. p. 100.

Ageratum altissimum. *Sp. pl. ed.* 2. p. 1176.

Icon. *Moris, hist.* 3. s. 7. t. 18. f. 11.

The most common species in the Allegany mountains, and near the sea-coast from Canada to Pennsylvania. *℥. Aug.—Oct. v. v.* About two feet high; flowers white.

27. *E. foliis longe-petiolatis subdeltoideo-lanceolatis rariter serratis, calycinis squamis tomentosis obtusis, caule pulverulento.*—*Mich. fl. amer. 2. p. 100.*

On the sea-coast of Carolina, among *Scirpus*, &c. *Michaux. ℥. Sept.—Nov. +.* Flowers white.

serotinum.

613. MIKANIA. *Willd. sp. pl. 3. p. 1742.*

1. *M. caule scandente glabro, foliis cordatis repando-dentatis acuminatis lobis divaricatis inæqualibus, floribus corymbosis.* *Willd. sp. pl. 3. p. 1743.*

Eupatorium scandens. Sp. pl. 1171.

Icon. Jacq. ic. rar. 1. t. 169. Pluk. alm. t. 163. f. 3.

On the banks of rivers and ditches: Canada to Carolina.

℥. July.—Sept. v. v. A twining plant; flowers very numerous, white with a tinge of blue. There is another species, found in Carolina, with flesh-coloured fragrant flowers, but I have no materials at hand to give its description.

scandens.

614. CHRYSOCOMA. *Gen. pl. 1019.*

1. *C. foliis radicalibus spathulato-lanceolatis, caulinis linearibus rariter sparsis, caule subnudo, corymbo composito fastigiato, calycibus oblongis 3—4-floris.* *Mich. fl. amer. 2. p. 101.*

nudata.

In low grounds, in the forests of North and South Carolina. *℥. Aug.—Oct. v. v.* A plant of singular appearance, the stem almost leafless; the large flat corymbus consists of small flowers, entirely yellow; even the calyx is deeply coloured.

2. *C. glabra; foliis linearibus 3-nervibus punctato-scabris, floribus corymbosis congestis, calycibus laxis 5-floris glabris.*—*Lam. encycl. 2. p. 192.*

dracunculoides.

C. biflora. Sp. pl. 1178. secundum specimen Pallasianum in Herbario Lambertiano asservatum.

On high cliffs on the banks of the Missouri. *M. Lewis. ℥. Oct. v. s. in Herb. Lewis.* From one to two feet high; flowers large, yellow.

3. *C. calycibus pedunculis foliisque sublanato-pubescenti-*

nauseosa.

bus ; foliis angustissime linearibus, corymbo laxiusculo, calycibus laxis 5-floris : squamis interioribus divaricatis glabris — *Pallas. mss. in Herb. Lambert.*

On the banks of the Missouri. *M. Lewis.* 2. Oct. *v. s. in Herb. Lewis.* Flowers yellow, somewhat smaller than the preceding.

615. CACALIA. *Gen. pl.* 1275.

- suaveolens.* 1. *C. caule herbaceo, foliis petiolatis hastato-sagittatis serratis glabris concoloribus, floribus corymbosis erectis, calycibus multifloris.*—*Willd. sp. pl.* 3. *p.* 1734.
On the banks of rivers : Pennsylvania to Carolina. 2. Aug.—Oct. *v. v.* From three to four feet high ; flowers white ; anthers yellow.
- atriplicifolia.* 2. *C. caule herbaceo, foliis petiolatis glabris subtus glaucis, radicalibus cordatis dentatis, caulinis rhombeis utrinque subbidentatis, floribus corymbosis erectis, calycibus 5-floris.*—*Willd. sp. pl.* 3. *p.* 1734.
Icon Pluk. alm. t. 101. *f.* 1. *Moris. hist.* 3. *s.* 7. *t.* 15. *f.* 7.
In low and overflowed places, near rivers : Canada to Carolina. 2. Aug.—Oct. *v. v.* Flowers white, considerably smaller than the preceding.
- reniformis.* 3. *C. caule herbaceo, foliis petiolatis glabris subtus ad venas pilosis, radicalibus amplis cordatis reniformibus repandodentatis, caulinis oblongis dentatis basi cuneatis integerrimis, corymbis fastigiatis, calycibus multifloris.* *Willd. sp. pl.* 3. *p.* 1735.
On the banks of rivers : Pennsylvania to Virginia. 2. Aug.—Oct. *v. v.* From five to ten feet high ; flowers white.

616. SPARGANOPHORUS. *Gært. carp.* 2. *p.* 395.

- verticillatus.* 1. *S. foliis setaceo-linearibus verticillatis, caule subunifloro, pappo campanulato 5-dentato.*—*Mich. fl. amer.* 2. *p.* 95.
Ethulia uniflora. *Walt. fl. car.* 195. *Willd. sp. pl.* 3. *p.* 1742.
Icon. Mich. fl. amer. 2. *t.* 42.
In overfl wet swamps and rivulets : New Jersey, Carolina, and Florida. 2. Aug.—Oct. *v. v.* Floating in the water ; flowers purple, the size of a large daisy.

617. HYMENOPAPPUS. *L'Herit. monog. Mich. fl. amer. 2. p. 103.*

Rothia. Lam. illustr. t. 667.

1. *H. candicanti-lanuginosus*; foliis profunde pinnatifidis, laciniis lineari-oblongis subdentatis, floribus corymboso-paniculatis.—*Mich. fl. amer. 2. p. 104.* *scabiosæus.*
Rothia caroliniensis. Journ. de hist. nat. no. 1. cum icone.
 In Carolina. ☉. +. Flowers white, the size of *Liatris scariosa*.

618. MELANANTHERA. *Mich. fl. amer. 2. p. 106.*

1. *M. foliis triplinerviis ovatis acuminatis scabris inæqualiter dentatis, inferioribus subcordatis, superioribus hastato-trilobis, pedunculis terminalibus corymbosis, paleis receptaculi lanceolatis acuminatis.*—*Mich. fl. amer. 2. p. 107.* *hastata.*
Bidens nivea. Willd. sp. pl. 3. p. 1721.
Athanasia hastata. Walt. fl. car. 201.
 α. *M. foliis profunde trilobatis.* *lobata.*
Icon. Dill. elth. t. 47. f. 55.
 β. *M. foliis leviter lobatis panduræformibus.* *pandurata.*
Icon. Dill. elth. t. 46. f. 54.
 On the banks of rivers: Carolina to Florida. ♀. Aug.
 —Oct. v.v. Flowers large, white.

619. MARSHALLIA. *Gen. pl.*

Trattenickia. Pers. syn. 2. p. 403.

Persoonia. Mich. fl. amer. 2. p. 104.

1. *M. caule simplici inferne folioso superne nudato, foliis longo-lanceolatis, calycinis foliolis obtusis, paleis spatulatis.* *lanceolata.*
Persoonia lanceolata. Mich. fl. amer. 2. p. 105.
Athanasia obovata. Walt. fl. car. 201.
 In the Carolina mountains. ♀. v.s. in *Herb. Walter.*
 Flowers resembling a *Scabious*, pale purple, and like all the following very ornamental.
 2. *M. caule simplici, foliis lanceolato-ovalibus acuminatis trinerviis, infimis vaginantibus, calycinis foliolis acutis, paleis angusto-linearibus.* *latifolia.*
Persoonia latifolia. Mich. fl. amer. 2. p. 105. t. 43.

Athanasia trinervia. *Walt. fl. car.* 201.

In the Carolina mountains. *W. v. s. in Herb. Walter.*

- angustifolia*. 3. *M. caule ramoso, foliis infimis angusto-lanceolatis, ramis angustissime linearibus, calycinis foliolis rigidis superne angustatis acutissimis, paleis setaceis.*

Persoonia angustifolia. *Mich. fl. amer.* 2. p. 106.

Athanasia graminifolia. *Walt. fl. car.* 200.

In Tennessee. *Michaux*. In swamps, near Wilmington, North Carolina. *Ph. W.* June, July. *v. v.*

The handsomest species of this genus.

620. SANTOLINA. *Gen. pl.* 1278.

sauveolens.

1. *S. glabra; caule corymboso-ramoso, foliis subbipinnatifidis, laciniis acutis linearibus, pedunculis terminalibus unifloris.*

On the banks of the Kooskoosky. *M. Lewis*. ☉. June—Aug. *v. v.*; *v. s. in Herb. Lewis*. A small plant of an agreeable sweet scent; flowers yellow.

Planta glabra. Caulis erectus, ramosus: rami corymbosi uniflori. Folia sessilia tenuissime pinnatifida, laciniis inciso-2-3-fidis, omnibus acutis angusto-linearibus. Pedunculi terminales, solitarii, uniflori. Calyx hemisphæricus, subimbricato-polyphyllus: foliolis ovalibus, obtusis, glabris, viridibus, margine albido-membraceis, laceris. Cor. discoidea. Discus globosus, luteus. Corollulæ germine oblique insertæ, tubulosæ, 4-fidæ? laciniis erectis. Genitalia inclusa. Receptaculum conicum, paleaceum. Paleis sparsis, oblongis, obtusis. Pappus nullus. Semina oblique obovata.

II. SUPERFLUA.

621. ARTEMISIA. *Gen. pl.* 1281.

* *Foliis simplicibus.*

integrifolia.

1. *A. cano-tomentosa; caule erecto virgato; foliis lineari-lanceolatis acuminatis subtus tomentosis subdentatis, floribus ovatis subsessilibus erectis tomentosis.*—*Willd. sp. pl.* 3. p. 1846.

Icon. *Gmel. fl. sib.* 2. t. 48. f. 1 & 2.

On the cliffs and dry savannahs of the Missouri. *M. Lewis.* 2. Oct. v. s. in *Herb. Lewis.* About three feet high.

2. *A. glabra*; foliis lineari-lanceolatis utrinque attenuatis, *Dracunculus*.
floribus subrotundis pedunculatis erectis.—*Willd. sp.*
pl. 3. p. 1848.

Icon. *Gmel. fl. sib.* 2. t. 59 & 60. f. 1.

On the Missouri. *M. Lewis.* 2. Aug.—Oct. v. s.
in *Herb. Lewis.*

3. *A. canescens*; foliis longe lineari-lanceolatis acutis ner- *cana.*
vosis utrinque canis: inferioribus cuneiformibus acute-
3-lobis, floribus ovalibus glomeratis sessilibus axilla-
ribus.

On the Missouri. *M. Lewis.* 2. Sept.—Nov. v. s.
in *Herb. Lewis.*

4. *A. canescens*: foliis inferioribus cuneiformibus obtusis *chinensis.*
trilobis, superioribus linearibus obtusis, floribus globo-
sis pedunculatis cernuis. *Willd. sp. pl.* 3. p. 1848.

Icon. *Gmel. fl. sib.* 2. t. 61. f. 1 & 2. *Pluk. amatth.*
t. 353. f. 5.

On the north-west coast. 2. Sept. Oct. v. s. in *Herb.*
Lambert. Flowers large.

**** *Foliis compositis*; *caule paniculato.***

5. *A. foliis caulinis pinnatis linearibus glabris, ramis indivi-* *Santonica.*
sis, spicis secundis reflexis, floribus subsessilibus 5-
floris. *Willd. sp. pl.* 3. p. 1826.

Icon. *Gmel. fl. sib.* 2. t. 51. *Lob. ic.* 756.

On the plains of the Missouri. *M. Lewis.* 2. Sept.
Oct. v. s. in *Herb. Lewis.*

6. *A. foliis caulinis setaceis pinnatis glabris, radicalibus pin-* *campestris.*
natis, laciniis 3-fidis incanis, caule procumbente ra-
moso virgato, floribus ovatis pedunculatis. *Willd. sp.*
pl. 3. p. 1827.

Icon. *Engl. bot.* 338.

On the plains of the Missouri. *M. Lewis.* 2. Sept.—
Nov. v. s. in *Herb. Lewis.*

7. *A. foliis incanis pinnatis, pinnis tripartitis linearibus* *frigida.*
acutis, floralibus pinnatis 3-partitisve, caule adscen-
dente, floribus globosis nutantibus. *Willd. sp. pl.* 3.
p. 1838.

On the plains of the Missouri. *M. Lewis*. 24. Oct.
Nov. *v. s. in Herb Lewis*.

fiennis.

8. *A. foliis glabris, radicalibus tripartito-pinnatis, caulinis inferioribus pinnatifidis, superioribus indivisis linearibus caule stricto, floribus subrotundis subsessilibus erectis.* *Willd. sp. pl. 3. p. 1842.*

A. hispanica, Jacq. ic. rar. 1. t. 172.

On the banks of the Missouri. ♂. *v. s. in Herb. Lambert.*

vulgaris.

9. *A. foliis subtus tomentosis, caulinis pinnatifidis, laciniis lanceolatis subdentatis acutis, floralibus indivisis linearibus lanceolatis, floribus subsessilibus oblongis erectis, calycibus tomentosis.* *Willd. sp. pl. 3. p. 1845*

Icon. Engl. bot. 978.

On the banks of rivers: Canada to New England. 24.
Sept.—Nov. *v. v.*

canadensis.

10. *A. subdecumbens, parce pubescens; foliis planis linearipinnatifidis, ramulis spicifloris, floribus subhemisphaericis, calycibus scariosis.* *Mich. fl. amer. 2. p. 129.*

In the moveable sands about Hudson's Bay. *Michaux.*
+. Receptacle smooth.

caudata.

11. *A. erecta, glabra; foliis subsetaceo-pinnatifidis, laciniis convexis, ramulis confertis, racemis terminalibus longissimis strictis, floribus pedicellatis globoso-ovatis.*—*Mich. fl. amer. 2. p. 129.*

On the gravelly banks of the Missouri. *Michaux.* +.

*** *Foliis compositis; caule simplicissimo.*

spithamea.

12. *A. pumila, sericeo-pubescens; foliis inferioribus linearibus superne pinnatifidis, laciniis paucis linearibus acutis, floralibus simplicibus, floribus racemosis brevipedunculatis hemisphaericis, calycibus scariosis.*

In Labrador. *Colmaster.* 24. Sept. Oct. *v. s. in Herb. Dickson.* Flower large, in proportion to the size of the plant; receptacle naked.

622. TANACETUM. *Gen. pl. 1280.*

vulgare.

1. *T. foliis bipinnatis incisis serratis.* *Willd. sp. pl. 3. p. 1814.*

Icon. Oed. dan. 871.

In cultivated grounds and on road sides : New England to Pennsylvania. *fl.* July—Sept. *v. v.* Common
Taisy is probably introduced from Europe.

623. BACCHARIS. *Gen. pl.* 1285.

1. *B. glaberrima*, paniculato-ramosissima; foliis angustolinearibus integerrimis, panicula composita multiflora, calycibus parvulis sub-20-floris.—*Mich. fl. amer.* 2. *p.* 125. *angustifolia*

On the sea-coast : Carolina to Florida; on the banks of the Mississippi. *M. Lewis.* *fl.* July—Sept. *v. v.*; *v. s. in Herb. Lewis.* Flowers white, as all the following are.

2. *B. foliis lævibus cuneato-obovalibus superne dentatis, glomerulifloris, glomerulis axillaribus sessilibus remotis, squamis calycinis superne raris.*—*Mich. fl. amer.* 2. *p.* 125. *ra.*

In woods, on the coast of Virginia and Carolina. *fl.* Aug.—Oct. *v. v.* Resembles the following.

3. *B. foliis obovatis superne inciso-dentatis, panicula composita foliosa, fasciculis pedunculatis.*—*Willd. sp. pl.* 3. *p.* 1915. *halimifolia.*

Icon. *Schmidt arb.* 82. *Herm. parad.* 225. *Pluk. alm.* t. 27. *f.* 2.

On the sea-coast : Maryland to Florida. *fl.* Sept.—Nov. *v. v.* The whole shrub is covered with a white powder.

624. CONYZA. *Gen. pl.* 1286.

1. *C. herbacea*, pubescens; foliis sessilibus lato-lanceolatis acutis serratis; serraturis apice cartilagineis, corymbis terminalibus fastigiatis coarctatis subaphyllis, calycinis squamis subulato-mucronatis flosculis brevioribus.—*Mich. fl. amer.* 2. *p.* 126. *exclus. syn. Walteri.* *marylandica.*

Erigeron camphoratum. *Willd. sp. pl.* 3. *p.* 1960.

Icon. *Dill. elth. t.* 88. *f.* 104.

In overflowed places, near rivers and ponds : New York to Carolina. ☉. Aug.—Oct. *v. v.* About a foot high; flowers reddish-purple; the whole plant emits a strong scent of camphor, only more disagreeable.

2. *C. herbacea*, subpubescens; foliis petiolatis ovato-lanceolatis acutissimis subrepando-denticulatis; denticulis *camphorata.*

glandulosis, corymbis terminalibus et axillaribus folio brevioribus, calycinis squamis acutis flosculos subæquantibus.

Baccharis foetida. Willd. *sp. pl.* 3. p. 1918. *Walt. fl. car.* 202.

Icon. *Dill. elth. t.* 89. f. 105.

On the banks of rivers and in large swamps: South Carolina and Georgia. $\mathcal{U}$. Aug. Sept. *v. v.* Flowers purple, smaller than the preceding; stem about three feet high.

bifrons.

3. *C. herbacea*, subglutinosa; foliis amplexicaulibus spatulato-oblongis acutis serratis, paniculae corymbulis capitato-glomeratis.—*Willd. sp. pl.* 3. p. 1920.

C. amplexicaulis. *Mich. fl. amer.* 2. p. 126.

C. uliginosa. *Pers. syn.* 2. p. 427.

Baccharis viscosa. *Walt. fl. car.* 202.

Icon. *Pluk. alm. t.* 87. f. 4.

In low and overflowed fields: Carolina. $\mathcal{U}$. July, Aug. *v. s.* in *Herb. Gronov.* Flowers pale yellow.

pycnostachya.

4. *C. caule alato*, foliis lanceolatis subtus tomentosis subintegerrimis, spica cylindrica densiflora.—*Mich. fl. amer.* 2. p. 126.

C. spicata. *Cav. ic.* 1. p. 8. t. 12?

Gnaphalium undulatum. *Walt. fl. car.* 203.

In dry fields and barren woods: Carolina to Florida. $\mathcal{U}$. July—Sept. *v. v.* A singular-looking species, nearly allied to *C. virgata*.

625. GNAPHALIUM. *Gen. pl.* 1282.

margaritaceum.

1. *G. herbaceum*; foliis lineari-lanceolatis sensim angustatis acutis, caule superne ramoso, corymbo fastigiato, floribus pedicellatis.—*Willd. sp. pl.* 3. p. 1881.

Icon. *Engl. bot.* 2018.

In Canada and on the mountains of New York and New Jersey. $\mathcal{U}$. Aug.—Oct. *v. v.* About eighteen inches high; flowers large, white, with a yellow disk, very handsome.

polycephalum.

2. *G. herbaceum*, erectum; foliis lineari-lanceolatis acutis, supra glabris, subtus pubescentibus, caule paniculato tomentoso, corymbis terminalibus coarctatis.—*Mich. fl. amer.* 2. p. 127.

G. obtusifolium. Willd. *sp. pl.* 3. p. 1880. *excl. syn. Dillenii*.

In old fields and woods : New England to Carolina. ☉. July—Sept. *v. v.* About a foot high, spreading ; flowers yellowish-white, not shining.

3. *G. herbaceum* ; foliis lineari-spathulatis subtus tomentosis, caule erecto simplicissimo, floribus sessilibus glomeratis terminalibus et axillaribus.—Willd. *sp. pl.* 3. p. 1884. *purpureum*.

Icon. *Dill. elth. t.* 109. *f.* 132.

In sandy barren soil : New York to Carolina. ♀. July—Oct. *v. v.* Not above a span high ; flowers small, calyces purple.

4. *G. sarmentis procumbentibus*, caule simplicissimo, foliis radicalibus ovatis nervosis mucronatis, corymbo coarctato, floribus dioicis, squamis calycinis interioribus elongatis acutiusculis coloratis.—Willd. *sp. pl.* 3. p. 1882. *plantaginum*.

Icon. *Pluk. alm. t.* 348. *f.* 9.

In woods and on sunny hills : Canada to Carolina, and in the Allegany mountains. ♀. May—July. *v. v.* Not above six inches high ; leaves large, resembling plaintain leaves ; flowers white.

5. *G. caule non sarmentoso simplicissimo*, foliis radicalibus lanceolatis, floribus terminalibus aggregatis sessilibus, calycinis squamis interioribus elongatis acutis membranaceis. Willd. *sp. pl.* 3. p. 1883. *alpinum*.

Icon. *Fl. dan.* 332.

In Labrador. Colmaster. ♀. *v. s. in Herb. Dickson*
Not above four inches high ; resembling *G. dioicum*.

6. *G. caule herbaceo simplicissimo erecto*, foliis angustolanceolatis utrinque attenuatis et lanatis, floribus terminalibus axillaribusque sessilibus spicatis. Willd. *sp. pl.* 3. p. 1884. *sylvaticum*.

Icon. *Fl. dan.* 254.

In stony woods : New York and Canada. ♀. July, Aug. *v. v.* About a foot or less high ; calyces shining, straw-coloured with brown.

7. *G. caule herbaceo erecto ramoso*, foliis obovato-spathulatis subtus pubescentibus, floribus axillaribus et terminalibus glomeratis spicatis. Willd. *sp. pl.* 3. p. 1887. *americanum*.

G. spathulatum. *Lam. encycl.* 2. p. 728.

In dry, sunny, and rocky situations: Pennsylvania to Virginia. ☉. July -- Sept. *v. v.* About a span high; flowers small, pale straw-coloured.

uliginosum.

8. *G. caule herbaceo ramoso diffuso lanato, foliis linearilanceolatis utrinque angustatis tomentosis, floribus terminalibus congestis.* *Willd. sp. pl.* 3. p. 1891.

Icon. *Fl. dan.* 859.

In exsiccated pools: Canada to Virginia. ☉. Aug. Sept. *v. v.* About a span high; flowers small, calyces brown.

germanicum.

9. *G. herbaceum, caule erecto dichotomo, foliis linearilanceolatis acutis tomentosis, floribus globoso-capitatis alaribus terminalibusque.* *Willd. sp. pl.* 3. p. 1894.

Filago germanica. *Sp. pl.* 1311.

Icon. *Fl. dan.* 997. *Engl. bot.* 946.

In dry fields and pastures: Pennsylvania to Virginia. ☉. July, Aug. *v. v.* About a span high: calyces straw-coloured.

626. BELLIS. *Gen. pl.* 1300.

integrifolia.

1. *B. caulescens, divaricato-ramosa; foliis integerrimis, inferioribus obovatis, supremis lanceolatis, calycinis foliolis acutissimis pilo acuminatis.*—*Mich. fl. amer.* 2. p. 131.

On banks of rivers and on shady hills in Tennessee. *Michaux.* +.

627. CHRYSANTHEMUM. *Gen. pl.* 1307.

Leucanthemum.

1. *C. foliis amplexicaulibus lanceolatis serratis, basi incisodentatis, caule erecto ramoso.* *Willd. sp. pl.* 3. p. 2142.

Icon. *Fl. dan.* 994. *Engl. bot.* 601.

In meadows and fields: common every where, and probably introduced from Europe. ☿. June, July. *v. v.* A very troublesome weed; flowers large, white, resembling a daisy.

arcticum.

2. *C. foliis radicalibus tripartitis incisodentatis, caulinis cuneiformibus 3-partitis obtusis.* *Willd. sp. pl.* 3. p. 2146.

Icon. *Gmel. fl. sib.* 2. t. 84.

On the north-west coast. *¶. v. s. in Herb. Lambert.*
About a foot high; flowers purplish-white, the size
of the preceding species.

628. PYRETHRUM. *Smith fl. brit. 2. p. 900.*

1. *P. foliis lanceolatis, inferioribus apice serratis, superioribus integerrimis, ramis corymbosis. Willd. sp. pl. 3. p. 2151.* *serotinum.*

Chrysanthemum serotinum. Sp. pl. 1251.

Icon. Pluk. alm. t. 17. f. 2. Moris. hist. 3. s. 6. t. 9. f. 11.

In North America. *¶. Oct. Nov. v. s. in Herb. Lambert.* Flowers white, smaller than *Chrysanthemum Leucanthemum.*

629. ARNICA. *Gen. pl. 1296.*

1. *A. foliis remote dentatis subtus lanato-hirsutis, radicalibus petiolatis oblongis basi angustatis, caulinis alternis oblongo lanceolatis, caule uniflora.—Willd. sp. pl. 3. p. 2108.* *Doronicum.*

Icon. Jacq. fl. austr. 1. t. 92. Allion. fl. ped. t. 17. f. 1 & 2.

In Labrador. *Colmaster. ¶. July, Aug. v. s. in Herb. Dickson.* Not above a span high; flowers large, yellow.

2. *A. glabra; foliis integerrimis utrinque glabris acutis trinervibus, radicalibus spathulato-lanceolatis basi in petiolum angustatis, caulinis oppositis lanceolatis sessilibus, caule uniflora.* *plantaginea.*

In Labrador. *Colmaster. ¶. July, Aug. v. s. in Herb. Dickson.* About a span high; flower the size of the preceding, yellow, the rays broad and 3-dentated.

3. *A. pubescens; foliis radicalibus lanceolatis obtusiusculis basi attenuatis petiolatis trinervibus, caulinis oppositis remotis linearibus, caule uniflora.* *fulgens.*

On the banks of the Missouri. *¶. v. s.* About a foot or more high, very slender; leaves on the stem generally two pairs; flowers somewhat smaller than the preceding, of a very deep and beautiful yellow.

4. *A. hirsuta; foliis radicalibus decussatim oppositis oblongo-ovatis subdentatis, caule subaphyllo summitate in pedunculos 1-floros diviso.* *Claytoni.*

Doronicum nudicaule. Mich. fl. amer. 2. p. 121.

Doronicum acaule. Walt. fl. car. 205.

Doronicum foliis Plantaginis, &c. Clayt. fl. virg. no. 37.

In shady woods: Virginia to Florida. $\mathcal{U}$. July, Aug.
v. s. in Herb. Gronov. nec non Walter. About two
feet high; flowers large, of a fine yellow.

- maritima.* 5. *A. foliis lanceolatis, inferioribus serratis, caule folioso multifloro. Willd. sp. pl. 3. p. 2110.*
On the north-west coast. $\mathcal{U}$. *v. s. in Herb. Banks.*
Flowers large, very handsome.

630. CINERARIA. *Gen. pl. 1294.*

- integrifolia.* 1. *C. lanato-tomentosa; caule simplici, foliis inferioribus*
 β . *minor.* *spathulatis subdentatis, superioribus angusto-lanceolatis integerrimis erectis, floribus subumbellatis.—Willd. sp. pl. 3. p. 2082.*

Senecio tomentosus. Mich. fl. amer. 2. p. 119.

On the banks of the Missouri. *M. Lewis.* In Carolina near Flat-rock. *Michaux.* $\mathcal{U}$. Aug. Sept. *v. s. in Herb. Lewis.* About a foot high; flowers the size of *Senecio Jacobæa*, yellow; the rays very short.

- heterophylla.* 2. *C. lanato-tomentosa; foliis radicalibus longe petiolatis*
spathulato-obovatis, ovatis acutiusculis pinnatifidisque,
caulinis 2–3-linearibus pinnatifidis, floribus corym-
bosis.

On dry sunny rocks, in the Blue-mountains: Pennsylvania. $\mathcal{U}$. May, June. *v. v.* About a span high; flowers deep yellow, the size of the preceding.

- canadensis.* 3. *C. villosa; foliis pinnatifidis subvillosis, laciniis sinuatis,*
floribus paniculatis.—Willd. sp. pl. 3. p. 2085.
In Canada. *Kalm.* $\mathcal{U}$. +. Resembles *C. maritima*, but is not tomentose.

631. SENECIO. *Gen. pl. 1290.*

* *Floribus flosculosis: radiis nullis.*

- vulgaris.* 1. *S. foliis amplexicaulibus pinnatifidis dentatis, floribus*
corymboso-coarctatis.—Willd. sp. pl. 3. p. 1979.

Icon. Fl. dan. 513. Engl. bot. 747.

In cultivated grounds as a weed; about Philadelphia and some other places in Pennsylvania; introduced from Europe. $\odot$. April—Oct. *v. v.* Flowers, as all the following, yellow.

2. *S. caule virgato-paniculato, foliis amplexicaulibus oblongis acutis inæqualiter acuteque profunde dentatis, calycibus lævibus.*—*Willd. sp. pl.* 3. p. 1974. *hieracifolius.*

Icon. *Pluk. phyt. t.* 112. f. 1. mala.

On road sides and in newly cleared grounds: Canada to Carolina. ☉. July, Aug. *v. v.* From two to five feet high. This is one of the plants which spring up in the most remote western countries, when the land is cleared of timber, particularly when the brush-wood is burnt on the ground; from which circumstance it is generally known by the name of *Fire-weed*. I have frequently found it covering a square piece of cleared land, when there was not a single plant to be found in any other place for a considerable distance round it.

3. *S. glaber; foliis radicalibus spathulatis serratis in petiolum attenuatis, caulinis pinnatifidis dentatis remotissimis, pedunculis elongatis umbellato-corymbosis.* *elongatus.*

On rocks, near the banks of rivers: about Easton, Pennsylvania. ♀. July, Aug. *v. v.* Resembling No. 8, but is destitute of a ray.

4. *S. glaber; foliis radicalibus longe petiolatis ovato-subrotundis subcordatis dentatis, caulinis 2. remotis pinnatifidis dentatis, pedunculis brevibus subternis umbellatis.* *pauciflorus.*

S. tussilaginoïdes. *Walt. fl. car.* 208?

In Labrador. *Colmaster.* In Carolina. *Walter.* ♀. *v. s. in Herb. Dickson.* Not above a span high.

** *Floribus radiatis.*

5. *S. caule simplicissimo rigide erecto subnudo, foliis omnibus lanceolatis, radicalibus subintegris inciso-dentatisque, corymbo paucifloro, calycibus glabellis, radiis parvulis.*—*Mich. fl. amer.* 2. p. 120. *pauperculus.*

About lakes: Canada. *Michaux.* +. A small plant; flowers the size of *S. Jacobæa*.

6. *S. foliis radicalibus longissime petiolatis orbiculatis subcordatis crenatis, caulinis paucis remotissimis lineari-oblongis basi dilatatis inciso-dentatis, pedunculis brevissimis hirsutis subumbellatis, calycibus glabellis, radiis paucis brevissimis.* *gracilis.*

S. strictus. *Herb. Banks. mss.*

On the rocky banks of rivers; Pennsylvania. ♀. May—Aug. *v. v.*; *v. s. in Herb. Banks.* About a foot

- high, very slender; flowers the smallest of all the species here enumerated.
- obovatus.* 7. *S. foliis radicalibus obovatis crenato-serratis petiolatis, caulinis pinnatifidis dentatis, floribus subumbellatis longe pedunculatis, caule glabriusculo.*—*Willd. sp. pl. 3. p. 1999.*
S. obtusatus. Herb. Banks. mss.
 On the side of hills and rocks, near rivers: New York to Virginia. $\mathcal{A}$. June, July. *v. v.*; *v. s. in Herb. Banks.* Flowers nearly the size of *S. Jacobæa*.
- Balsamitæ.* 8. *S. foliis radicalibus oblongis serratis petiolatis, caulinis inferioribus lyrato-pinnatifidis serratis, summis pinnatifidis dentatis, floribus subumbellatis, caule pedunculisque basi villosis.*—*Willd. sp. pl. 3. p. 1998.*
S. lyratus. Mich. fl. amer. 2. p. 120.
S. glabellus. Lam. encycl. 7. p. 102.
 In rocky fertile soil: Pennsylvania to Virginia. $\mathcal{A}$. June, July. *v. v.* Flowers the size of the preceding.
- aureus.* 9. *S. foliis radicalibus ovatis cordatis serratis petiolatis, caulinis pinnatifidis dentatis, lacinia terminali lanceolata, pedunculis subumbellatis incrassatis.*—*Willd. sp. pl. 3. p. 1998.*
 In shady woods, about rocks: Canada to Virginia. $\mathcal{A}$. June, July. *v. v.* Flowers the same size as the preceding.
- Cymbalaria.* 10. *S. foliis radicalibus petiolatis subrotundis basi truncatis dentatis, petiolis appendiculatis sublyratis, caulinis sessilibus linearibus inciso-dentatis, caule subuni-floro.*
 On the north-west coast. *D. Nelson. v. s. in Herb. Banks.*
- canadensis.* 11. *S. foliis bipinnatis linearibus glabris, summis pinnatis, corymbis compositis fastigiatis.*—*Willd. sp. pl. 3. p. 1996.*
 In Canada. *Kalm. +.*
- ciliatus.* 12. *S. caule piloso, foliis lanceolato-linearibus ciliatis.*—*Walt. fl. car. 208.*
 In Carolina. *Walter. +.* From six to eight feet high; rays of the flower white.

632. TUSSILAGO. *Gen. pl.* 1289.

1. *T. thyrsus fastigiatus*, floribus radiatis, foliis subrotundo-cordatis inæqualiter dentatis subtus tomentosis. *Willd. sp. pl.* 3. p. 1968.
Icon. Fl. dan. 61. *Gmel. fl. sib.* 2. t. 70.
 In Canada, and on the highest peaks of the Vermont and New Hampshire mountains. *Æ.* May. *v. v.*
 Flowers of the ray white, disk pale purple. *frigida.*
2. *T. thyrsus ovatus fastigiatus*, floribus radiatis, foliis radicalibus oblongis acutis sagittatis integerrimis, lobis obtusis. *Herb. Banks. mss.* *sagittata.*
 On Hudson's Bay. *Hutchinson. Æ. v. s. in Herb. Banks.*
3. *T. thyrsus fastigiatus*, floribus obsolete radiatis, foliis subrotundo-cordatis semi-septemlobis inciso-dentatis subtus tomentosis. *Willd. sp. pl.* 3. p. 1972. *palmata.*
Icon. Ait. kew. 3. t. 11.
 In Labrador. *Colmaster. Æ. April, May. v. s. in Herb. Dickson.*

633. INULA. *Gen. pl.* 1295.

1. *I. foliis amplexicaulibus ovatis rugosis subtus tomentosis*, calycum squamis ovatis. *Willd. sp. pl.* 3. p. 2089. *Helenium.*
Icon. Fl. dan. 728. *Engl. bot.* 1546.
 In low meadows and on road sides : New England to Pennsylvania ; originally brought from Europe. *Æ.* July, Aug. *v. v.* A tall rough-looking plant ; flowers large, and, as all the rest, yellow.
2. *I. villosa* ; foliis sessilibus oblongo-lanceolatis basi attenuatis obtusis glanduloso-denticulatis, inferioribus petiolatis serratis, pedunculis axillaribus corymbosis glanduloso-pilosis.—*Willd. sp. pl.* 3. p. 2099. *excl. syn. Plukenetii. mariana.*
I. glandulosa. Lam. encycl. 3. p. 259.
Icon. Mill. dict. ic. t. 57.
 In dry sandy woods and fields : New Jersey to Carolina. *Æ.* Aug.—Oct. *v. v.* A foot or more high ; flowers the size of *I. Britannica.*
3. *I. hispido-pilosa*, scaberrima ; foliis arcte sessilibus oblongis acutis superne subdentatis utrinque scabris, pedunculis axillaribus corymbosis hispidis. *scabra.*
I. subaxillaris. Lam. encycl. 3. p. 259.

Icon. *Pluk. mant.* 340. *f.* 1. *no.* 5.

In the pine-barrens of South Carolina. *2l.* Aug. Sept.
v. s. in. Herb. Enslen. About two feet high; flowers
smaller than the preceding.

falcata.

4. *I. lanato-villosa*; foliis sessilibus linearibus acutissimis subfalcato-patentibus nervosis utrinque pilosis, pedunculis paucis axillaribus corymbosis calycibusque villosis.

Aster gracilentus. Herb. Banks. mss.

In sandy pine-woods: New Jersey. *2l.* Sept. Oct.
v. v. Not above a span high; flowers the size and
shape of No. 2.

gossypina.

5. *I. lanuginoso-candicans*; foliis sessilibus oblongo-spathulatis obtusis integerrimis, corymbo subfastigiato.—
Mich. fl. amer. 2. *p.* 122.

Inula lanata. Herb. Banks. mss.

On the sea-coast of Carolina and Florida. *2l.* Aug.—
Oct. *v. s.* About a foot high; flowers the size of
No. 3.

graminifolia.

6. *I. argenteo-sericea*; caule simplicissimo, foliis longissime lanceolato-linearibus integerrimis erectis nervosis, corymbo composito laxo, calycibus turbinatis, squamis acutissimis carina serrato-glandulosis.—*Mich. fl. amer.* 2. *p.* 122.

In sandy dry woods: Pennsylvania to Florida. *2l.* Aug.
—Oct. *v. v.* About a foot high; flowers small.

argentea.

7. *I. sericea*; foliis lanceolatis trinerviis erectis flexuosis, corymbo subcomposito stricto, squamis calycinis planis pubescentibus.—*Pers. syn.* 2. *p.* 452.

In Pennsylvania. *Persoon.* *2l.* +. Flower a great deal
larger than the preceding species, with which it has a
great affinity.

634. ERIGERON. *Gen. pl.* 1287.

alpinum.

1. *E. villosum*; caule plerumque unifloro, calycibus villosis, radio patente, foliis lanceolatis obtusiusculis.—
Willd. sp. pl. 3. *p.* 1959. *Smith fl. brit.* 2. *p.* 877.

Icon. *Engl. bot.* 464. *Fl. dan.* 292.

In Labrador. *Colmaster.* *2l.* June, July. *v. s. in Herb. Dickson.* The Labrador specimen is not above two inches high; flower large, rays purple.

bellidifolium.

2. *E. hirsutum, incanum*; foliis radicalibus obovatis subserratis, caulinis paucis distantibus lanceolatis integer-

rimis, caule sub-3-floro, radiis elongatis.—*Willd. sp. pl.* 3. p. 1958.

E. serpentaria. Herb. Banks. mss.

E. pulchellum. Mich. fl. amer. 2. p. 224.

E. caule simplicissimo, &c. Gron. fl. virg. 122.

In shady woods, principally throughout the mountains : Canada to Carolina. *¶*. June—Aug. *v. v.* A foot or eighteen inches high ; flowers large, rays blueish-white ; sometimes it produces only one flower, and sometimes more than three. It is known by the name of *Poor Robin's Plantain*.

3. *E. glabrum* ; foliis radicalibus ovali-lanceolatis acutis subdentatis, caule simplicissimo subaphyllo elongato, corymbis terminalibus paucifloris, radiis longitudine calycis.—*Mich. fl. amer.* 2. p. 224. *nudicaule.*

Aster vernus. Willd. sp. pl. 3. p. 2029. *secundum specimen Clayton.*

In low grounds of Carolina and Georgia. *¶*. June—Aug. *v. v.* ; *v. s. in Herb. Gronov.* A foot high ; flowers small, rays blueish-white.

4. *E. tenue pubescens* ; foliis lanceolatis acutis, inferioribus sublyratis grosse dentatis supremis integerrimis, caule subsimplici summitate 3-floro, radiis calyce hemisphærico duplo longioribus.—*Lam. encycl.* 8. p. 491. *quercifolium.*

Icon. Lam. illustr. t. 681. *f.* 4.

In Carolina and Florida. *¶*. July, Aug. *v. s. in Herb. Enslin.* Not above a span high ; flowers pale blue or white.

5. *E. pubescens* ; foliis cuneato-oblongis rariter inciso-dentatis, caulinis semiamplexicaulibus, caule debili simplici superne corymboso, pedunculis elongatis unifloris, radiis capillaceis calyce hemisphærico duplo longioribus.—*Willd. sp. pl.* 3. p. 1957. *Mich. fl. amer.* 2. p. 223. *philadelphicum.*

In fields and dry woods : Canada to Carolina. *¶*. Aug. Sept. *v. v.* A delicate and handsome plant, from one to two feet high ; flowers the size of a common daisy, rays of a beautiful blueish-purple.

6. *E. pubescens* ; foliis oblongis dentatis amplexicaulibus, superioribus integerrimis, pedunculis corymbosis incrassatis, inferioribus elongatis, calycinis squamis carina pilosis, radiis calyce duplo longioribus.—*Willd. sp. pl.* 3. p. 1958. *purpureum.*

In pastures and on fertile hills, near the banks of rivers :

Canada to Virginia. ♀. July, Aug. *v. v.* A foot or eighteen inches high; flowers large, purple, and very ornamental.

- strigosum*. 7. *E. strigosus*-pilosus; foliis lanceolatis utrinque attenuatis medio grosse paucidentatis seu integerrimis, floribus corymboso-paniculatis.—*Willd. sp. pl.* 3. *p.* 1956.
In fields and dry pastures; common: Canada to Virginia. ♂. July, Aug. *v. v.* A very troublesome weed; flowers white, resembling the common daisy.
- nervosum*. 8. *E. albido-pubescens*; foliis lineari-lanceolatis integerrimis sericeis nervosis, floribus paniculatis.—*Willd. sp. pl.* 3. *p.* 1953.
In old fields and woods; common: Canada to Virginia. ♀. July—Sept. *v. v.* Likewise a troublesome weed; flowers resembling the preceding.
- heterophyllum*. 9. *E. foliis radicalibus subrotundo-ovatis profunde dentatis petiolatis, caulinis lanceolatis acutis medio serratis, corymbo terminali.* *Willd. sp. pl.* 3. *p.* 1956.
Aster annuus. *Willd. sp. pl.* 3. *p.* 2041.
Icon. Fl. dan. 486.
In old waste fields and on road sides; common. ♂. June—Aug. *v. v.* Flowers white.
- canadense*. 10. *E. caule hispido paniculatim ramosissimo, foliis lanceolato-linearibus ciliatis, calycibus cylindricis, radiis multiplici serie confertis brevissimis.*—*Willd. sp. pl.* 3. *p.* 1954.
In dry fields and on road sides; common: Canada to Florida. ☉. July—Sept. *v. v.* A common weed; flowers small.
- divaricatum*. 11. *E. divaricato-ramosissimum, subfastigiato-paniculatum; foliis subulatis, floribus brevissime radiatis, corollulis disci 4-fidis.*—*Mich. fl. amer.* 2. *p.* 123.
In fields and meadows of Kentucky, and on the banks of the Missouri and Mississippi. ☉. July—Sept. *v. s.* Resembles the preceding.
- longifolium*. 12. *E. glaberrimum: caule virgatim-paniculato, ramis strictis, foliis longissime-linearibus strictis, calycibus ovatis, radiis vix calyce longioribus.*—*Lam. encycl.* 8. *p.* 480.
In Carolina. ♀. July—Sept. *v. s.* About two feet high; rays yellow.
- hyssopifolium*. 13. *E. caule ramis sterilibus paniculato: paucis in pedunculos nudos protractis, foliis linearibus glabris ciliatis,*

radiis calyce cylindraceo multo longioribus.—*Mich. fl. amer.* 2. p. 123.

E. carolinianum. *Willd. sp. pl.* 3. p. 1953.

Icon. Dill. elth. t. 306. *f.* 394.

In low grounds: Canada to Carolina; rare. ♀. July—Sept. *v. s.* Resembles the preceding; rays yellow.

14. *E. pilosum*, subacaule; foliis radicalibus longe petiolatis triplicato-3-partitis, laciniis linearibus divaricatis, caulinis linearibus plerumque indivisis, caule superne nudo uniflora. *compositum.*

On the banks of the Kooskoosky. *M. Lewis.* ♀. July, Aug. *v. s.*; *v. v. cultum.* Not above a span high; flowers resembling a daisy exceedingly; they change during their flowering, from white to a lively pale red.

635. SOLIDAGO. *Gen. pl.* 1292.

* *Racemis secundis; foliis triplinervibus.*

1. *S. caule villosa*, foliis lanceolatis serratis triplinervibus scabris, racemis paniculatis secundis recurvis, ligulis abbreviatis. *Willd. sp. pl.* 3. p. 2055. *canadensis,*

Icon. Pluk. alm. t. 263. *f.* 1.

In hedges, old fields, and along fences: Canada to Pennsylvania. ♀. July—Sept. *v. v.*; *v. s. in Herb. Banks et Lambert.* From eighteen inches to five feet high; the flowers of all the following species are, like the present, yellow and small.

2. *S. caule villosa erecta*, foliis lanceolatis serratis triplinervibus scabris subtus villosis, racemis spiciformibus erectis, innuptis nutantibus, ligulis abbreviatis. *Willd. sp. pl.* 3. p. 2055. *procera,*

In swamps, hedges, and about fences: Canada to Virginia. ♀. July—Sept. *v. v.*; *v. s. in Herb. Banks.* From four to seven feet high.

3. *S. caule erecto tereti lævi*, foliis lineari-lanceolatis serratis glabris margine asperis triplinervibus, racemis paniculatis secundis, pedunculis pubescentibus.—*Willd. sp. pl.* 3. p. 2056. *serotina.*

In woods and hedges: New England to Pennsylvania. ♀. Sept. Oct. *v. v.*; *v. s. in Herb. Banks.*

4. *S. caule erecto glabro*, foliis lanceolatis serratis margine scabris obsolete triplinervibus, racemis paniculatis se- *gigantea,*

cundis, pedunculis hirtis, ligulis abbreviatis. *Willd. sp. pl.* 3. p. 2056.

In open low places, on the side of fertile hills: New England to Virginia. *W.* Aug.—Oct. *v. v.*; *v. s. in Herb. Banks.* From four to seven feet high.

ciliaris. 5. *S. caule erecto glabro, foliis lanceolatis subtriplinervibus glabris margine scabris subserratis, racemis paniculatis secundis, pedunculis glabris, bracteis ciliatis, ligulis abbreviatis. Willd. sp. pl.* 3. p. 2056.

In Pennsylvania. *Muhlenberg. W.* +.

reflexa. 6. *S. caule erecto villosa, foliis lanceolatis subserratis triplinervibus scabris reflexis, ramis paniculatis subsecundis reflexis. Willd. sp. pl.* 3. p. 2056.

In pine-woods and old fields: New Jersey to Carolina. *W.* Aug. Sept. *v. v.*; *v. s. in Herb. Banks.*

lateriflora. 7. *S. caule erecto pilosiusculo, foliis lanceolatis subtriplinervibus glabris margine scabris, inferioribus subserratis, racemis paniculatis subrecurvis secundis. Willd. sp. pl.* 3. p. 2057.

In old fields and dry woods: Canada to Carolina. *W.* Aug.—Oct. *v. v.*; *v. s. in Herb. Banks.* Not more than half the size of No. 1; flowers larger than any of the preceding.

*** Racemis secundis; foliis venosis.*

aspera. 8. *S. caule erecto tereti piloso, foliis ovatis subellipticis scaberrimis rugosis serratis enervibus, racemis paniculatis secundis. Willd. sp. pl.* 3. p. 2057.

Icon. *Dill. elth. t.* 305. f. 392.

In barren dry fields and woods: New York to Carolina. *W.* Sept.—Nov. *v. v.* *v. s. in Herb. Banks.*

altissima. 9. *S. caule erecto hirta, foliis lanceolatis inferioribus profunde serratis scaberrimis rugosis, paniculis secundis. Willd. sp. pl.* 3. p. 2057.

Icon. *Mart. cent.* '4.

vulgaris. *α.* *S. caule 5-pedali piloso, serraturis profundis inæqualibus, racemis divaricatis. Ait. kew.* 3. p. 212.

recurvata. *β.* *S. caule 3-pedali villosa, serraturis profundis subæqualibus. Ait. l. c.*

virginiana. *γ.* *S. caule 5-pedali villosissimo, serraturis magnis, racemis vix divergentibus. Ait. l. c. Mill. dict.*

In hedges and fields; common. *W.* Aug.—Oct. *v. v.*; *v. s. in Herb. Banks. et Lambert.* It is a very variable species, and scarcely two individuals look alike.

10. *S. caule erecto hirtio, foliis lanceolatis scaberrimis rugosis inferioribus adpresso-serratis, racemis paniculatis secundis patentissimis.* *Willd. sp. pl. 3. p. 2058. Mill. dict.*
S. altissima α . *Ait. kew. 3. p. 213.*
Icon. Dill. elth. t. 308. f. 396.
 In dry barren soil: Canada to Virginia. $\mathcal{U}$. Aug.—Oct. *v. v.*; *v. s. in Herb. Banks. et Lambert.* *rugosa.*
11. *S. caule erecto villoso, foliis lanceolatis molliusculis serratis enervibus, racemis paniculatis secundis.* *Herb. Banks. mss.*
S. altissima β . *Ait. kew. 3. p. 213.*
S. pilosa. *Mill. dict.*
 In fields and woods; frequent. $\mathcal{U}$. Aug.—Oct. *v. v.*; *v. s. in Herb. Banks. et Lambert.* From eighteen inches to three feet high. *villosa.*
12. *S. caule erecto hirtio sulcato, foliis oblongis utrinque attenuatis acuminatis, supra glabris, subtus rugosis scabris, medio adpresso-serratis, racemis secundis.*—*Willd. sp. pl. 3. p. 2059.*
 In old fields and about fences: Pennsylvania to Virginia. $\mathcal{U}$. Aug.—Oct. *v. v.*; *v. s. in Herb. Lambert.* *scabra.*
13. *S. caule erecto tereti hirtio, foliis oblongis acutis subamplexicauli-sessilibus glabris margine scabris rariter obsolete dentatis, panicula nuda secunda pyramidata, ramis reflexis, pedunculis glabris.* *pyramidata.*
 In pine-barrens of Georgia. *Enslen.* $\mathcal{U}$. Aug. Sept. *v. s. in Herb. Enslen.* About two feet high; the leaves decrease toward the beginning of the panicle, which consists of lively yellow and very small flowers.
14. *S. caule erecto tomentoso, foliis caulinis lanceolatis hispidis integerrimis, radicalibus subcuneiformibus serratis, racemis paniculatis secundis.* *Willd. sp. pl. 3. p. 2059.*
 In sandy and barren fields; common: Canada to Carolina. $\mathcal{U}$. Aug.—Oct. *v. v.*; *v. s. in Herb. Banks.* The whole plant has a gray aspect, and is about a foot, or sometimes two, high. *nemorali.*
15. *S. caule erecto glabro, foliis ellipticis serratis glabris, radicalibus oblongo-spathulatis, racemis paniculatis secundis patentibus, pedunculis pubescentibus.* *Willd. sp. pl. 3. p. 2059.*
 In shady woods, in fertile soil: New York to Virginia. $\mathcal{U}$. Sept. Oct. *v. v.* Two feet high. *patula.*

- ulmifolia*. 16. *S. caule erecto glabro striato, foliis ellipticis profunde serratis acuminatis subtus villosis, radicalibus obovatis, racemis paniculatis secundis, pedunculis villosis, ligulis abbreviatis.*—*Willd. sp. pl. 3. p. 2060.*
In swamps and shady woods: New York to Virginia. 24. Aug.—Oct. *v. v.*
- arguta*. 17. *S. caule erecto glabro, foliis glabris argute inæqualiter serratis, caulinis ellipticis, radicalibus ovato-oblongis, racemis paniculatis secundis, ligulis elongatis.* *Willd. sp. pl. 3. p. 2060.*
In woods and meadows: Canada to Virginia. 24. Sept.—Nov. *v. v.*; *v. s. in Herb. Banks.*
- junceæ*. 18. *S. caule erecto glabro, foliis lanceolatis glabris margine scabris, inferioribus serratis, racemis paniculatis secundis.* *Willd. sp. pl. 3. p. 2060.*
In sandy fields and woods: New Jersey to Carolina. 24. Aug.—Oct. *v. v.*; *v. s. in Herb. Banks.*
- elliptica*. 19. *S. caule erecto glabro, foliis ellipticis lævibus serratis, racemis paniculatis secundis, ligulis mediocribus.* *Willd. sp. pl. 3. p. 2060.*
S. latissimifolia. Mill. dict.
In shady woods, among rocks: New York to Virginia. 24. Aug.—Oct. *v. v.*; *v. s. in Herb. Banks.*
- asperata*. 20. *S. caule paniculato-corymboso, racemis suberectis, floribus adscendentibus, foliis lanceolatis serratis scabris.* *Herb. Banks. mss.*
In Canada. 24. *v. s. in Herb. Banks.*
- recurvata*. 21. *S. caule erecto pubescente, foliis lanceolatis serratis margine scabris, racemis elongatis secundis recurvatis paniculatis.* *Willd. enum. 889.*
In shady woods: Pennsylvania and Virginia. 24. Sept.—Nov. *v. v.*
- sempervirens*. 22. *S. caule erecto glabro, foliis lineari-lanceolatis subcarnosis lævibus integerrimis margine scabris, racemis paniculatis secundis, pedunculis pilosis.* *Willd. sp. pl. 3. p. 2060.*
Icon. *Pluk. alm. t. 235. f. 5. Moris. hist. 3. s. 7. t. 23. f. 15.*
In swamps and on the banks of rivers: Canada to Pennsylvania. 24. Sept.—Nov. *v. v.*; *v. s. in Herb. Banks. et Lambert.*
- virgata*. 23. *S. caule glabro simplicissimo, foliis subcuneato-lanceolatis obtusis integerrimis glaberrimis appressis, supe-*

rioribus sensim minoribus, ramis paniculæ elongatis apice racemifloris, pedunculis glabris secundis.—*Mich. fl. amer.* 2. p. 117.

In shady wet woods of Lower Carolina and Georgia. $\mathcal{U}$. Aug.—Oct. *v. v.* About two foot high; extremely smooth and slender.

24. *S. caule erecto pubescente, foliis lineari-lanceolatis integerrimis glabris margine scabris, racemis paniculatis secundis.* *Willd. sp. pl.* 3. p. 2061.

odora.

Icon *Pluk. alm.* 116 f. 6.

In dry sunny situations, on fertile woodlands: Canada to Carolina; principally throughout the Allegany mountains. $\mathcal{U}$. Aug. Oct.—*v. v.*; *v. s. in Herb. Banks.* This is most generally and principally known among the inhabitants by the name of *Golden-rod*, and used as a wholesome tea. The flowers, gathered when fully expanded, and carefully dried, give a most agreeable substitute for tea, which for some time has been an article of exportation to China, where it fetches a high price.

25. *S. caule erecto tereti aspero, foliis arcte sessilibus reflexis lineari-lanceolatis mucronatis subtus subcarinatis margine asperis, panicula racemis recurvatis.*—*Mich. fl. amer.* 2. p. 117.

retrorsa.

In open swamps of Virginia and Carolina. $\mathcal{U}$. Aug. Sept. *v. v.*

*** *Racemis erectis.*

26. *S. glabra, suffruticosa; foliis lanceolatis obtusis enervibus, panicula composita multiflora, fasciculis erectis, calycibus angusto-oblongis 5-floris, radio unico.*—*Mich. fl. amer.* 2. p. 116.

sa.

In the sand-barrens of Virginia and Carolina. $\mathcal{U}$. Aug.—Oct. *v. v.*

27. *S. caule foliisque ellipticis pilosis, inferioribus serratis, ramis foliolosis, racemis erectis, foliolis calycinis obtusis.* *Willd. sp. pl.* 3. p. 2061.

bicolor.

Icon *Pluk. alm. t.* 114. f. 3.

In woods and on dry hills: Canada to Carolina. $\mathcal{U}$. Aug.—Oct. *v. v.*; *v. s. in Herb. Banks.* It is easily distinguished from the rest, by the short and close racemes and white rays.

28. *S. caule erecto villosa, foliis ellipticis scabriusculis petiolatis, racemis erectis, ligulis elongatis.* *Willd. sp. pl.* 3. p. 2062.

petiolaris.

In dry sandy soil : New Jersey to Carolina. 24. Sept.
—Nov. *v. v.*; *v. s.* in *Herb. Banks.*

stricta.

29. *S. caule erecto glabro, foliis caulinis lanceolatis integerrimis glabris margine scabris, radicalibus serratis, racemis paniculatis erectis, pedunculis glabris.* Willd. *sp. pl.* 3. p. 2062.

In sandy woods : New Jersey to Carolina. 24. Aug.
—Nov. *v. v.*; *v. s.* in *Herb. Banks. et Lambert.*
About two feet high, very smooth.

lanceolata.

30. *S. caule hirtio angulato ramosissimo, foliis lanceolato-linearibus integerrimis erectiusculis 3—5-nervibus scabrisculis : nervis subtus pilosis, axillis nudis, corymbis terminalibus fastigiatis, ramulis capitatis, ligulis altitudine disci.*—Willd. *sp. pl.* 3. p. 2062.

Chrysocoma graminifolia. *Sp. pl.* 1178.

In fields and meadows, on the side of woods and rivers :
Canada to Pennsylvania. 24. Sept.—Nov. *v. v.*; *v. s.*
in *Herb. Banks. et Lambert.* From four to five feet
high ; flowers small.

tenuifolia.

31. *S. caule scabro angulato corymboso-ramoso, foliis angustissime-linearibus patulis obsolete 3-nervibus scabris, axillis foliosis, corymbis terminalibus fastigiatis, ramulis capitatis, ligulis disco vix altioribus.*

S. lanceolata β . minor. *Mich. fl. amer.* 2 p. 116.

In pine-barrens : New Jersey to Carolina. 24. Sept.
Oct. *v. v.* Not above a foot high ; leaves very small
and narrow.

Sarothræ.

32. *S. caule angulato scabro inferne nudo, superne corymboso, ramis summitate paucifloris, foliis linearibus stricte-appressis obsolete 3-nervibus utrinque scabris, axillis nudis, ligulis disco duplo longioribus.*

On the plains of the Missouri. *M. Lewis.* 24. Sept.
v. s. in *Herb. Lewis.* About a span high ; resembling
Hypericum Sarothra in general habit very much. This
and the two preceding have a great affinity to one an-
other ; but I consider them good and permanent spe-
cies, as there are no intermediate varieties, which
might lead to the suspicion that all belong to one ge-
nuine species.

cæsia.

33. *S. caule lævi erecto, foliis lanceolatis glabris, racemis erectis, ligulis mediocribus.* Willd. *sp. pl.* 3. p. 2062.

Icon. *Dill. elth. t.* 307. *f.* 395.

In woods and low fields : New England to Carolina. $\mathcal{U}$.
Aug.—Oct. *v. v.*

34. *S. caule glabro paniculato, foliis lanceolatis serratis glabris margine scabris, ramis apice racemosis, ligulis elongatis.*—*Willd. enum.* 891.

livida.

In sandy fields and woods : New York to Virginia. $\mathcal{U}$.
Sept. Oct. *v. v.*

35. *S. caule erecto hispido scabro, foliis lanceolatis scabris integerrimis, radicalibus serratis, racemis erectis, ligulis mediocribus.* *Willd. sp. pl.* 3. p. 2063.

hispida.

In grassy fields and woods : New Jersey to Virginia. $\mathcal{U}$.
Oct. Nov. *v. v.* Resembles No. 33.

36. *S. caule paniculato hirtio, foliis lanceolatis utrinque scabris, caulinis serratis, ramis integerrimis, racemis erectis, ligulis elongatis.* *Willd. enum.* 891.

hirta.

In North America. *Willdenow.* $\mathcal{U}$. +.

37. *S. caule ramoso pubescente, foliis lanceolatis utrinque scabris attenuatis 3-nervibus integerrimis, racemis erectis, ligulis elongatis.* *Willd. enum.* 891.

lithospermifolia.

In sandy barren woods : New Jersey to Carolina. $\mathcal{U}$.
Aug.—Oct. *v. v.*

38. *S. caule erecto lævi, foliis lanceolatis carnosius integerrimis undique lævibus, racemis paniculatis erectis, pedunculis squamosis villosis, ligulis elongatis.* *Willd. sp. pl.* 3. p. 2063.

lævigata.

In salt-marshes : Canada to Virginia. $\mathcal{U}$. Sept.—Nov.
v. v. ; *v. s. in Herb. Banks.* A tall robust species, resembling the following one very much, and probably nothing more than a variety.

39. *S. caule obliquo glabro, foliis lanceolatis subcarnosis integerrimis undique lævibus, racemis paniculatis erectis, pedunculis squamosis glabris, ligulis elongatis.* *Willd. sp. pl.* 3. p. 2063.

mexicana.

Icon. *Dodart. act.* 4. t. 219.

On the banks of rivers and ditches, near salt-water. $\mathcal{U}$.
July—Sept. *v. v.* ; *v. s. in Herb. Banks. et Lambert.*
Tall ; flowers large.

40. *S. caule erecto subpubescente, foliis lineari-lanceolatis membranaceis basi attenuatis glabris margine scabris, infimis subserratis, racemis erectis, ligulis elongatis.* *Willd. sp. pl.* 3. p. 2064.

viminea.

S. integerrima. Mill. dict.

On the banks of rivers and ditches : Canada to Virginia.

24. Aug.—Oct. *v. v.* ; *v. s. in Herb. Banks. et Lambert.* Resembles the preceding, but the leaves are membranaceous, &c.

- erecta.* 41. *S. caule subvillosa, foliis lanceolatis venosis glabris integerrimis subpetiolatis. Herb. Banks. mss.*
In North America. 24. *v. s. in Herb. Banks.*
- macrophylla.* 42. *S. foliis inferioribus ovatis acuminatis attenuatis inæqualiter argute serratis glabris, caulinis lanceolatis utrinque attenuatis subsessilibus serratis, racemis axillariis pedunculatis foliosis, longitudine foliorum, calycibus oblongis turgidis multifloris, ligulis subelongatis.—Herb. Banks. mss.*
In Canada. 24. *v. s. in Herb. Banks.* About three feet high ; it is intermediate between this genus and *Aster*.
- glomerata.* 43. *S. caule humili simplicissimo, foliis glabris oblongo-lanceolatis serratis, racemo simplici e glomerulis axillariis : superioribus capitato-congestis, calycibus turgidis multifloris.—Mich. fl. amer. 2. p. 117.*
In the mountains of Carolina. *Michaux.* 24. +.
- flexicaulis.* 44. *S. caule flexuoso glabro angulato, foliis ovatis acuminatis serratis glabris, racemis erectis axillariis, ligulis mediocribus.—Willd. sp. pl. 3. p. 2064.*
Icon. Pluk. alm. t. 235. f. 3. Rob. ic. 22.
- latifolia.* 45. *S. Pluk. alm. t. 235. f. 4.*
In woods and fields ; common : Canada to Carolina. 24. Aug.—Oct. *v. v.* ; *v. s. in Herb. Banks.* This is the most common species.
- axillaris.* 45. *S. caule glabro tereti stricto, foliis lanceolatis serratis glabris, racemis axillariis subglobosis erectis, ligulis elongatis.—Herb. Banks. mss.*
In shady woods : Canada to Virginia. 24. Aug.—Oct. *v. v.* ; *v. s. in Herb. Banks.*
- Virgaurea.* 46. *S. caule erecto tereti superne ramoso et pubescente, foliis caulinis lanceolatis utrinque attenuatis serratis, inferioribus ellipticis pilosiusculis, racemis erectis, ligulis elongatis. Willd. sp. pl. 3. p. 2065.*
Icon. Engl. bot. 301.
In Labrador. *Colmaster.* 24. Aug.—Oct. *v. s. in Herb. Dickson.*
- multiradiata.* 47. *S. caule villosiusculo, foliis sessilibus lanceolatis glabris ciliatis, inferioribus apice serratis, racemo terminali*

erecto, ligulis elongatis numerosis. *Willd. sp. pl. 3. p. 2066.*

In Labrador and Hudson's Bay. $\mathcal{U}$. Aug.—Oct. *v. s. in Herb. Dickson. et Banks.*

48. *S. caule simplici erecto glabro, foliis lanceolatis serratis glabris basi attenuatis elongatis, racemo erecto.* *Herb. Banks. mss.* *humilis.*

In North America. $\mathcal{U}$. *v. s. in Herb. Banks.*

49. *S. caule piloso tereti, foliis lanceolatis subtus pilosiusculis, racemis erectis, ligulis elongatis.* *Herb. Banks. mss.* *elata.*

In North America. $\mathcal{U}$. *v. s. in Herb. Banks.*

50. *S. caule foliisque ovato-oblongis pilosis scabris, caulinis integerrimis, infimis serratis, ramis floriferis paniculatis, racemis compactis, ligulis elongatis.* *Willd. sp. pl. 3. p. 2067.* *rigida.*

Icon. *Herm. parad.* 243.

In the tract of mountains: New Jersey to Carolina. $\mathcal{U}$. Aug.—Oct. *v. v.*; *v. s. in Herb. Banks. et Lambert.* Flowers large; leaves very rough.

51. *S. foliis radicalibus ovato-oblongis petiolatis, caule nudiusculo ramoso fastigiato.* *Willd. sp. pl. 3. p. 2067.* *novboracensis.*
In sandy fields and woods. $\mathcal{U}$. Sept. Oct. *v. v.* Leaves rough; flowers large.

636. ASTER. *Gen. pl.* 1291.

* *Foliis integerrimis.*

1. *A. foliis lineari-lanceolatis 3-nervibus punctatis acutis margine scabris, ramulis corymboso-fastigiatis coarctatis, radio sub-5-floro, calycibus imbricatis disco duplo brevioribus.* *Willd. sp. pl. 3. p. 2022.* *hyssopifolius.*

In sandy fields and woods: New Jersey to Carolina. $\mathcal{U}$. Aug.—Oct. *v. v.*; *v. s. in Herb. Banks. et Lambert.* From a foot to two high; flowers in a close and flattened corymb; ray white, with a tinge of purple; disk yellow.

2. *A. foliis lineari-lanceolatis obsolete trinervibus integerrimis obtusis margine scabris, ramis corymboso-fastigiatis, floribus sessilibus aggregatis, radio 5-floro, calycibus disco brevioribus imbricatis, squamis oblongis obtusis adpressis apice subreflexis.*—*Willd. sp. pl. 3. p. 2024.* *solidaginoides.*

Conyza linifolia. Sp. pl. 1205.

Icon. *Pluk. alm. t. 79. f. 2.*

In dry swamps and on the borders of woods: Pennsylvania to Carolina. $\mathcal{U}$. Aug.—Oct. *v. v.*; *v. s. in Herb. Banks. et Lambert.* About two feet high; the scales of the calyx white, with green tips; rays long, white.

- tordifolius.* 3. *A. foliis cuneato-obovatis acutis enervibus utrinque scabris tortuoso-patulis, corymbo composito subfastigiato, calycibus cylindricis imbricatis basi bibracteatis, squamis oblongis acutiusculis adpressis, radio 5-floro.*—*Mich. fl. amer. 2. p. 109.*

Conyza bifoliata. Walt. fl. car. 204.

In Lower Carolina and Georgia. $\mathcal{U}$. Aug.—Oct. *v. s. in Herb. Enslin.* About a foot high; flowers the size of the preceding, rays white.

- ledifolius.* 4. *A. foliis lineari-lanceolatis basi attenuatis enervibus scabriusculis margine revolutis, ramis corymbosis, ramulis filiformibus unifloris nudiusculis, calycibus laxis imbricatis disco duplo brevioribus, foliolis acutissimis, radio sub-20-floro.*

A. nemoralis. Ait. kew. 3. p. 198.

- uniflorus.* β . *A. caule simplicissimo unifloro.*

A. uniflorus. Mich. fl. amer. 2. p. 110?

In sphagnous bogs and about mountain-lakes: Canada to New Jersey. $\mathcal{U}$. Sept. Oct. *v. v.*; *v. s. in Herb. Banks. et Lambert.* About a foot high; flowers middle-sized; disk yellowish white; rays lilac or reddish-purple, twice the length of the disk. Sometimes the leaves have a small indenture on each side.

- rigidus.* 5. *A. foliis linearibus mucronatis subcarinatis rigidis margine scabro-ciliatis, caulinis reflexis, rameis patentibus subulatis, caule erecto superne subramoso, ramulis 1-floris corymbosis, calycibus imbricatis disco duplo brevioribus, squamis carinatis obtusiusculis, radiis sub-10-floris reflexis.*—*Willd. sp. pl. 3. p. 2032. Mich. fl. amer. 2. p. 118.*

A. nemoralis. Willd. sp. pl. 3. p. 2021. excl. syn. Aiton.

A. linariifolius. Herb. Banks. et Lambert.

Icon. *Pluk. alm. t. 14. f. 7.*

In sandy fields and pine-barrens: New Jersey to Carolina. $\mathcal{U}$. Aug.—Oct. *v. v.*; *v. s. in Herb. Banks. et Lambert.* About a foot or less high; flowers nearly the size of the preceding, rays a beautiful pale violet-blue, disk yellow.

6. A. foliis crebris linearibus mucronatis enervibus impunctatis carinatis scabris rigidis, rameis recurvatis, caule subdecumbente, ramis fastigiatis 1-floris, calycibus imbricatis longitudine disci.—*Willd. sp. pl. 3. p. 2044. Mich. fl. amer. 2. p. 110.* *linariifolius.*

A. squarrosus. *Herb. Banks. mss.*

In dry, sandy and gravelly fields, and among rocks: Pennsylvania to Carolina. $\mathcal{A}$. Aug.—Nov. *v. v.*; *v. s.* in *Herb. Banks.* Resembles the preceding, but is more branching and of lower growth; the stems are rough, and generally of a purple colour; leaves more crowded, smaller, and more reflex; flowers of the same colour, but smaller, and not raised on almost naked peduncles.

7. A. foliis angusto-linearibus enervibus impunctatis glabris erectis, ramulis terminalibus nudiusculis 1-floris, calycibus laxis discum subæquantibus.—*Herb. Banks. mss.* *graminifolius.*

At Hudson's Pay. $\mathcal{A}$. Aug. Sept. *v. s.* in *Herb. Banks.* Flowers pale-purple; not above six inches high.

8. A. foliis linearibus enervibus punctatis scabris reflexo-patentibus, ramis corymbosis fastigiatis foliosis, calycibus imbricatis brevibus, radiis disco subæqualibus.—*Willd. sp. pl. 3. p. 2044.* *linifolius.*

In dry shady woods and exsiccated swamps: Pennsylvania to Virginia. $\mathcal{A}$. Sept.—Nov. *v. v.* About eighteen inches or two feet high; flowers the size of a large daisy; rays white or faintly purple.

9. A. foliis lineari-lanceolatis albo-villosis, caule ramoso villosa, ramis recurvato-patulis, ramulis subsecundis unifloris, calycibus oblongis laxis imbricatis, squamis lanceolatis mucronatis.—*Willd. sp. pl. 3. p. 2045.* *pilosus.*

A. villosus. *Mich. fl. amer. 2. p. 113.*

In natural meadows of the Illinois country. $\mathcal{A}$. Aug.—Oct. +.

10. A. glaberrimus, parviflorus; caule paniculato, ramis multifloris, foliis lineari-subulatis, calycibus cylindraceis, ligulis radii minutis. *Mich. fl. amer. 2. p. 111.* *subulatus.*

In salt-marshes: Pennsylvania to Carolina. $\mathcal{A}$. Aug.—Nov. +.

11. A. foliis lineari-lanceolatis utrinque attenuatis acuminatis, caule pubescente paniculato erecto, ramis paucifloris, calycibus imbricatis, squamis linearibus acutis adpressis. *Willd. sp. pl. 3. p. 2025.* *foliolosus.*

Icon. *Dill. elth. t. 35. f. 39?*

In dry barren fields and on road sides : Canada to Carolina. *Ÿ. Aug.—Oct. v. v. ; v. s. in Herb. Lambert.* Flowers small, white ; scarcely a distinct species from the following. There is no specimen of it in the Banksian Herbarium.

- tenuifolius.* 12. *A. foliis linearilanceolatis utrinque attenuatis margine hispidis, caule glabro ramoso erecto, ramulis unifloris, calycibus imbricatis, squamis oblongis acutis laxis. Willd. sp. pl. 3. p. 2026.*

Icon. *Pluk. alm. 78. f. 5.*

On road sides and barren fields. *Aug.—Nov. v. v. ; v. s. in Herb. Banks. et Lambert.* Flowers the same as the preceding, which I consider only a variety of the present species.

- dumosus.* 13. *A. foliis linearibus glabris, ramulorum brevissimis, ramis paniculatis, calycibus cylindraceis arcte imbricatis. Willd. sp. pl. 3. p. 2026.*

- violaceus.* *α. A. radio pallide violaceo, caule pubescente. Ait. kew. 3. p. 202.*

- albus.* *β. A. radio albo, caule glabro. Ait. l. c.*

Icon. *Herm. parad. 95. Pluk. alm. t. 78. f. 6.*

In dry barren fields and sand-barrens : New England to Carolina. *Ÿ. Aug.—Nov. v. v. ; v. s. in Herb. Banks. et Lambert.* Flowers small, rays white, disk yellow.

- ericoides.* 14. *A. foliis linearibus glaberrimis, ramulorum subulatis approximatis, caulinis elongatis, calycibus subsquarrosis, foliolis acutis, caule glabro. Willd. sp. pl. 3. p. 2027.*

In barren grounds and on road sides ; common : Canada to Carolina. *Ÿ. Aug.—Nov. v. v. ; v. s. in Herb. Banks. et Lambert.* Flowers the size and colour of the preceding.

- multiflorus.* 15. *A. foliis linearibus glabriusculis, caule ramosissimo difuso pubescente, ramulis secundis, calycibus imbricatis, squamis oblongis squarrosis acutis. Willd. sp. pl. 3. p. 2027.*

Icon. *Dill. elth. t. 36. f. 40.*

In dry fields, and on road sides : Canada to Carolina. *Ÿ. Aug.—Nov. v. v. ; v. s. in Herb. Banks. et Lambert.* Probably only a variety of the preceding.

- ciliatus.* 16. *A. foliis ciliatis, caulinis linearilanceolatis nervosis, ramis brevissimis lanceolatis 3-nerviis, caule ramoso*

pubescente, ramis paniculatis, calycibus imbricatis, squamis spathulatis squarrosis. *Willd. sp. pl. 3. p. 2027.*

In North America. *Muhlenberg.* 4. +. Resembles the preceding one.

17. *A. cano-pubescentis*; foliis linearibus, panicula corymbosa ramosissima foliosa, calycibus imbricatis acutissimis disco longioribus. *canescens.*

On the banks of the Missouri. 4. Aug.—Nov. *v. s.* Flowers the size of a daisy, rays pale purple.

18. *A. paludosus*; foliis remotis linearibus amplexicaulibus erectis glaberrimis margine scabris, pedunculis fere nudis, calycibus squarrosis basi foliis 2. suffultis.—*Willd. sp. pl. 3. p. 2033.*

In marshes and swamps of Lower Carolina. 4. Aug.—Nov. *v. s. in Herb. Banks, et Lambert.* Flowers large, rays blue, disk yellow.

19. *A. sparsiflorus*; foliis subulato-linearibus subcarnosis subreflexis, caule tenui ramosissimo, ramis ramulisque patulis setaceis 1-floris, squamis pedunculorum divaricatis subulatis, calycibus imbricatis, squamis adpressis acutis.—*Mich. fl. amer. 2. p. 112.*

In salt-marshes: New York to Carolina. 4. Sept.—Nov. *v. s.* Resembles the preceding one; flowers smaller; rays pale purple or white, disk brownish-yellow.

20. *A. surculosus*; radice repente, caulibus debilibus simplicibus, foliis longe lanceolatis glabriusculis, radicalibus spathulatis, corymbo terminali incompte rarifloro, calycis squamis lineari-oblongis obtusiusculis. *Mich. fl. amer. 2. p. 113.*

In woods of North Carolina, in the county of Burke. *Michaux.* +.

21. *A. coridifolius*; foliis creberrimis linearibus obtusis reflexis margine hispidis, caule ramoso diffuso glabro, ramulis unifloris, calycibus imbricatis, squamis lineari-spathulatis obtusis.—*Willd. sp. pl. 3. p. 2028. Mich. fl. amer. 2. p. 112.*

In dry barren soil in Lower Carolina. 4. Aug.—Nov. *v. s.* Resembles the following species; flowers bright blue.

22. *A. squarrosus*; foliis creberrimis ovatis acuminatis reflexis margine hispidis, caule ramoso hirtio, ramulis unifloris, caly-

cibus imbricatis, squamis lineari-cuneatis acutis squarrosis. *Willd. sp. pl.* 3. p. 2028. *Walt. fl. car.* 209.

In pine-barrens of Lower Carolina. *W.* Aug.—Nov. *v. v.*; *v. s.* in *Herb. Lambert.* Has a striking resemblance to *A. reflexus* from the Cape of Good Hope, and is a very ornamental plant; flowers blue and large.

concolor.

23. *A. foliis oblongo-lanceolatis utrinque cano-pubescentibus, caule simplicissimo erecto pubescente, racemo terminali, calycibus imbricatis, squamis lanceolatis sericeis adpressis.* *Willd. sp. pl.* 3. p. 2029.

In sandy pine and oak woods near the sea-coast: New Jersey to Florida. *W.* Aug.—Nov. *v. v.*; *v. s.* in *Herb. Banks. et Lambert.* About a foot high; flowers, both ray and disk, of an agreeable reddish-purple. This is one of the handsomest of the American *Asters*, and highly deserves to be introduced as an ornamental plant.

sericeus.

24. *A. foliis oblongo-lanceolatis sessilibus sericeo-tomentosis, caule gracili decumbente laxo ramoso, ramis ramulisque subunifloris, calycibus foliaceis subsquarrosis.* —*Willd. sp. pl.* 3. p. 2016.

A. argenteus. Mich. fl. amer. 2. p. 111.

Icon. Vent. hort. cels. t. 33.

On the banks of rivers, among rocks, in the Illinois country, and on the Mississippi and Missouri. *W.* Sept, Oct. *v. s.* in *Herb. Lambert.* A beautiful species; leaves resemble those of *Protea argentea*; flowers large, rays a fine purple, disk pale-yellow.

reticulatus.

25. *A. undique cano-tomentosus; foliis lanceolato-oblongis utrinque acutis sessilibus margine revolutis, subtus reticulato-venosis triplinerviis, caule superne ramoso, ramis apice corymboso-racemifloris, pedunculis subaphyllis, calycibus imbricatis laxiusculis, squamis acutissimis.*

In dry swamps of Carolina and Georgia. *W.* Aug.—Oct. *v. v.* About three feet high; flowers middle-sized, rays and florets white.

cornifolius.

26. *A. glaber; foliis oblongo-ovatis acuminatis brevipetiolatis margine scabris, caule glabro, panícula pauciflora, ramis bifloris, calycibus subimbricatis.*—*Willd. sp. pl.* 3. p. 2039.

In Pennsylvania. *Muhlenberg. W. +.*

humilis.

27. *A. foliis subrhomboideis ovali-lanceolatis utrinque acu-*

minatis subpetiolatis glabris margine hispidis, corymbo divergenti-dichotomo nudiusculo paucifloro, calycibus laxis imbricatis, radiis 8-floris.—*Willd. sp. pl.* 3. p. 2038.

A. infirmus. *Mich. fl. amer.* 2. p. 109.

A. divaricatus. *Willd. sp. pl.* 3. p. 2044. *secundum specimen Gronov. et Banks.*

Icon. *Willd. hort. berol.* 67. *Pluk. alm. t.* 79. f. 1.

In shady and rocky places: Canada to Carolina. $\mathcal{A}$.

Aug.—Oct. *v. v.*; *v. s. in Herb. Banks. et Gronov.*

Not above a foot high; flowers clear white, and large in proportion to the plant.

28. *A. foliis lanceolatis basi attenuatis acuminatis margine scabris, caule simplici apice corymboso-fastigiato, calycibus laxis imbricatis, squamis lanceolatis obtusis.*—*Lam. encycl.* 1. p. 305. *amygdalinus.*

A. umbellatus. *Ait. kew.* 3. p. 199.

On the banks of rivers and in swamps: Canada to Carolina. $\mathcal{A}$. Sept.—Nov. *v. v.*; *v. s. in Herb. Banks. et Lambert.* Rays large, white.

29. *A. foliis lineari-lanceolatis subintegerrimis glabris, caule glabro apice paniculato, calycibus laxis imbricatis, squamis acutis apice patulis.*—*Willd. sp. pl.* 3. p. 2030. *salicifolius.*

A. præaltus. *Lam. encycl. suppl.* 1. p. 493.

Icon. *Reb. ic.* 307.

In low grounds, on the side of ditches: New York to Virginia. $\mathcal{A}$. Aug.—Oct. *v. v.*; *v. s. in Herb. Banks. et Lambert.* From four to six feet high; flowers middle-sized, reddish-blue.

30. *A. foliis lanceolatis subamplexicaulibus apice attenuatis margine scabris, caule a basi ramoso erecto hispido, ramulis pilosis, calycinis squamis laxis linearibus acutis æqualibus.*—*Willd. sp. pl.* 3. p. 2030. *æstivus.*

In dry swamps and copses: New York and Pennsylvania. $\mathcal{A}$. July—Sept. *v. v.*; *v. s. in Herb. Banks. et Lambert.* Not above two feet high; flowers resembling the preceding, rays blue.

31. *A. foliis lineari-lanceolatis pilosis amplexicaulibus basi auriculatis, caule simpliciusculo piloso stricto, floribus subsessilibus terminalibus confertis, calycinis squamis laxis coloratis lanceolatis disco longioribus.*—*Willd. sp. pl.* 3. p. 2032. *novæ angliæ.*

Icon. *Herm. parad.* 98.

On the banks of rivers and borders of meadows: Canada to Virginia. $\mathcal{U}$. Sept.—Nov. *v. v.*; *v. s.* in *Herb. Banks. et Lambert.* A highly ornamental species; in rich moist soil it will grow to the height of ten feet: flowers large, rays blue or purple, and almost every shade between red and blue.

cyaneus. 32. *A. foliis linearilanceolatis amplexicaulibus lævigatis, caule virgato-paniculato glaberrimo, ramis racemifloris, calycinis squamis laxis lanceolatis discum æquantibus, interioribus apice coloratis.*—*Hoffm. phytogr.* 1. p. 71. *t. B. f.* 1.

A. rubricaulis. *Lam. encycl.* 1. p. 305.

A. spurius. *Willd. sp. pl.* 3. p. 2032.

A. Novæ anglæ. β . *Ait. kew.* 3. p. 201.

In old meadows and dry swamps: New England to Carolina. $\mathcal{U}$. Sept.—Nov. *v. v.*; *v. s.* in *Herb. Lambert.* From three to four feet high; flowers large, in great abundance, of various tints of blue and purple; the handsomest of the genus.

carolinianus. 33. *A. foliis oblongis utrinque attenuatis sessilibus, caule subscandente ramosissimo, ramulis pubescentibus summitate paucifloris, calycinis squamis lanceolatis squarrosis.*—*Willd. sp. pl.* 3. p. 2017. *Walt fl. car.* 208.

In shady moist hedges and swamps: Carolina and Georgia. $\mathcal{U}$. $\frac{1}{2}$. Aug. Sept. *v. v.* From six to fifteen feet high; flowers large; rays purple or flesh-coloured, disk yellowish-purple.

grandiflorus. 34. *A. foliis linearibus rigidis acutiusculis subamplexicaulibus, rameis reflexis, margine ciliato-hispidis, caule ramoso hirtio, ramis unifloris, calycinis squamis squarrosis linearilanceolatis.* *Willd. sp. pl.* 3. p. 2033.

Icon. Mill. ic. 282. *Dill. elth t.* 36. *f.* 41. *Mart. cent.* 19. *Hoffm. phyt.* 1. p. 65. *t. A. f.* 1.

In dry sandy woods: Virginia to Carolina. $\mathcal{U}$. Sept.—Nov. *v. v.*; *v. s.* in *Herb. Banks.* About two feet high; leaves small; flowers large, rays purple and blue, disk yellow.

phlogifolius. 35. *A. foliis lanceolatis cordatis amplexicaulibus subtus pubescentibus, margine scabris, caule simplicissimo pubescente, panícula terminali laxa rariflora, calycinis squamis laxis imbricatis lanceolatis.*—*Willd. sp. pl.* 3. p. 2034.

A. amplexicaulis. *Mich. fl. amer.* 2. p. 114.

In shady moist places: New Jersey to Virginia. $\mathcal{U}$.

Aug.—Nov. *v. v.* From eighteen inches to a foot high; flowers middle-sized, rays violet.

36. *A. foliis oblongo-lanceolatis ciliatis cordatis amplexicaulibus utrinque scabris pilosis, caule ramoso hirtio, ramis patentibus elongatis paucifloris microphyllis, calycinis squamis imbricatis lanceolatis patulis.* — *Willd. sp. pl.* 3. p. 2034. *patens.*

A. diversifolius. Mich. fl. amer. 2. p. 113?

In hedges, old drying up swamps, and sometimes among rocks: New England to Carolina. $\mathcal{U}$. Sept.—Nov. *v. v.*; *v. s.* in *Herb. Banks. et Lambert.* From a foot to two high; flowers middle-sized, rays purple or blue, disk yellow.

**** *Foliis cordatis ovatisque, serratis.***

37. *A. foliis oblongis cordatis amplexicaulibus integerrimis pilosis subundulatis, inferioribus ovatis cordatis subserratis petiolatis, petiolis alatis, caule paniculato hispido, ramulis secundis foliosis unifloris.* *Willd. sp. pl.* 3. p. 2035. *undulatus.*

Icon. *Hoffm. phyt.* 1. t. C. f. 1. *Herm. parad.* 96.

In dry woods and old fields: New England to Carolina. $\mathcal{U}$. Sept.—Nov. *v. v.*; *v. s.* in *Herb. Banks. et Lambert.* Flowers smaller than the preceding; rays pale violet.

38. *A. foliis oblongo-lanceolatis acuminatis sessilibus medio serratis, radicalibus oblongis cordato-sagittatis serratis petiolatis, caule ramoso glabro, squamis calycinis laxis imbricatis lanceolatis.* — *Willd. sp. pl.* 3. p. 2035. *sagittifolius.*

In North America. *Wedemeyer.* $\mathcal{U}$. +. Flowers blue, the size of the following species.

39. *A. foliis ovato-lanceolatis subserratis petiolatis glabris, radicalibus ovato-cordatis serratis scabris petiolatis, petiolis nudis, caule ramosissimo glabro, ramulis pilosis, calycibus laxis subimbricatis.* *Willd. sp. pl.* 3. p. 2035. *paniculatus.*

Icon. *Corn. canad.* 65. *Moris. hist.* 3. s. 7. t. 22. f. 34.

In meadows, hedges, and on the borders of woods: Canada to Virginia. $\mathcal{U}$. Aug.—Nov. *v. v.*; *v. s.* in *Herb. Banks. et Lambert.* From two to four feet high; flowers rather small, but in great abundance, changing from white to blue in the ray, and from yellow to purple or brown in the disk, which gives the whole plant a beautiful variegated appearance.

- cordifolius*. 40. A. foliis cordatis subtus pilosis argute serratis petiolatis, petiolis alatis, caule paniculato glabriusculo, panícula divaricata, calycibus laxis subimbricatis.—*Willd. sp. pl.* 3. p. 2036.
In shady woods, throughout the mountains: Canada to Florida. $\mathcal{U}$. Sept.—Nov. *v. v.*; *v. s. in Herb. Banks*. Flowers small, white, or pale purple.
- corymbosus*. 41. A. foliis ovatis argute serratis acuminatis glabriusculis, inferioribus cordatis petiolatis, petiolis nudis, caule glabro superne corymboso-fastigiato, ramis pilosis, calycibus oblongis imbricatis, squamis obtusis arcte adpressis.—*Willd. sp. pl.* 3. p. 2036.
In shady woods: Canada to Florida. $\mathcal{U}$. Aug.—Nov. *v. v.*; *v. s. in Herb. Banks. et Lambert*. A foot or two high; flowers white, larger than the preceding.
- macrophyllus*. 42. A. foliis ovatis petiolatis serratis scabris, summis ovato-cordatis sessilibus, inferioribus cordatis petiolatis, petiolis submarginatis, caule ramoso diffuso, calycibus cylindricis arcte imbricatis, squamis oblongis acutis.—*Willd. sp. pl.* 3. p. 2037.
In shady woods about rocks; Canada to Virginia. $\mathcal{U}$. Sept.—Nov. *v. v.*; *v. s. in Herb. Banks. et Lambert*. A foot or two high; flowers above the middle size, rays white, and sometimes blue.
- heterophyllus*. 43. A. foliis glabris, caulinis ovatis subcordatis acuminatis profunde serratis apice integerrimis, ramorum ovato-oblongis subserratis, ramulorum lanceolatis minutissime reflexo-patentibus, caule paniculato glabro, calycibus arcte imbricatis. *Willd. enum.* 882.
In North America. *Willdenow*. $\mathcal{U}$. +.
- *** *Foliis lanceolatis ovatisque, inferioribus serratis.*
- amplexicaulis*. 44. A. foliis ovato-oblongis acutis amplexicaulibus cordatis serratis glabris, caule paniculato glabro, ramulis 1-2-floris, calycinis squamis lanceolatis arcte imbricatis.—*Willd. sp. pl.* 3. p. 2046.
A. pensylvanicus. *Lam. encycl. suppl.* 1. p. 498.
On the borders of woods, in sandy soil: New Jersey to Virginia. $\mathcal{U}$. Sept.—Nov. *v. v.* Flowers middle-sized, blue.
- prenanthoides*. 45. A. foliis amplexicaulibus spathulato-lanceolatis acuminatis medio serratis basi cordatis, ramulis pilosis, calycinis squamis lanceolatis squarrosis.—*Willd. sp. pl.* 3. p. 2046.

In Pennsylvania. *Muhlenberg.* 2. +. Flowers blue.

46. *A. foliis amplexicaulibus lanceolatis, inferioribus subserratis glabris, ramulorum linearibus squarrosis, calycibus squarrosis disco brevioribus, squamis lineari-cuneatis.*—*Willd. enum* 884. *adulterinus.*

In North America. *Willdenow.* 2. +. Rays violet; disk yellowish-brown.

47. *A. foliis subamplexicaulibus lato-lanceolatis subserratis lævibus, caule ramosissimo glabro, ramulis multifloris, calycinis squamis lanceolatis laxis disco subæquantibus.*—*Willd. sp. pl.* 3. p. 2046. *lævigatus.*

In swamps and wet woods: Pennsylvania to Virginia. 2. Sept.—Nov. *v. v.*; *v. s. in Herb. Lambert.* Flowers large, pale rose- or flesh-coloured, with a tinge of purple.

48. *A. foliis subamplexicaulibus lato-lanceolatis subserratis glabris, radicalibus medio serratis, caule ramosissimo glabro, calycinis squamis lanceolatis laxis disco brevioribus.* *Willd. sp. pl.* 3. p. 2045. *versicolor.*

In old fields and on the borders of woods: New Jersey to Carolina. 2. Aug.—Oct. *v. v.*; *v. s. in Herb. Lambert.* A beautiful species; flowers large and in great abundance, disk yellow, rays white, changing to a deep violet; so that at the same time there are flowers of different colours on the same plant; which has a very pleasing effect.

49. *A. foliis subamplexicaulibus, superioribus lanceolatis acuminatis integerrimis, inferioribus lanceolatis basi angustatis serratis, ramulis virgatis, calycibus disco brevioribus laxis, caule glabro.* *Willd. sp. pl.* 3. p. 2045. *mutabilis.*

Icon. *Pluk. alm. t.* 326. f. 1. *Herm. lugdb.* 67.

In old fields and woods: Pennsylvania to Virginia. 2. Aug.—Oct. *v. v.*; *v. s. in Herb. Lambert.* Flowers middle-sized; rays deep purple, disk yellow, changing to purple.

50. *A. foliis subamplexicaulibus remotis oblongis integerrimis lucidis, radicalibus subserratis, ramis simplicibus unifloris, calycibus imbricatis, foliolis subcuneiformibus acutis apice incrassatis, caule glabro angulato.*—*Willd. sp. pl.* 3. p. 2044. *lævis.*

In woods and on the sides of ponds and ditches: New York to Virginia. 2. Sept.—Nov. *v. v.* Rays blueish-purple.

- concinus.* 51. *A. foliis lanceolatis subamplexicaulibus inferioribus subserratis glabris, caule simplici apice paniculato, calycibus arcte imbricatis.* *Willd. enum.* 884.
In fields and woods: New York and Pennsylvania. *W.* Sept.—Nov. *v. v.*; *v. s. in Herb. Lambert.* Leaves resembling those of *Phlox maculata*; rays blueish-purple.
- puniceus.* 52. *A. foliis amplexicaulibus lanceolatis serratis scabriusculis, ramis paniculatis, calycibus laxis discum superantibus, foliolis lineari-lanceolatis subæqualibus, caule hispido.* *Willd. sp. pl.* 3. p. 2040.
Icon. Herm. lugdb. 651.
- purpureus.* *α. A. septempedalis, caulibus saturate purpureis.* *Ait. kew.* 3. p. 208.
A. amœnus. *Lam. encycl.* 1. p. 306.
- rufescens.* *β. A. octopetalis, caulibus e viridi-rufescentibus.* *Ait. l. c.*
A. hispidus. *Lam. encycl.* 1. p. 307.
On the banks of rivers and ditches, particularly near salt-water: Canada to Carolina, and in the range of mountains, about lakes. *W.* Sept.—Nov. *v. v.*; *v. s. in Herb. Banks, et Lambert.* From three to ten feet high; flowers large, purple or blue.
- floribundus.* 53. *A. foliis subamplexicaulibus lanceolatis, inferioribus serratis, caule glabro, ramis corymbosis, ramulis multifloris pilosis, calycinis squamis laxis lanceolatis imbricatis.* *Willd. sp. pl.* 3. p. 2048.
In North America. *Willdenow.* *W.* +. Resembles the following species.
- novi belgii.* 54. *A. foliis subamplexicaulibus lanceolatis glabris margine scabris, inferioribus subserratis, ramis subdivisis, calycibus laxe-imbricatis, foliolis lineari-lanceolatis, caule tereti glabro.* *Willd. sp. pl.* 3. p. 2048.
Icon. Herm. lugdb. 69.
In hedges and old fields: New England to Virginia. *W.* Aug.—Oct. *v. v.*; *v. s. in Herb. Lambert.* Flowers middle-sized, pale purple.
- bellidiflorus.* 55. *A. foliis amplexicaulibus angusto-lanceolatis supra scabris, inferioribus subserratis, caule ramosissimo, calycis squamis lanceolatis patentibus.* *Willd. enum.* 886.
In North America. *Willdenow.* *W.* +. Ray pale red, disk yellow, changing to brown.
- spectabilis.* 56. *A. foliis lanceolatis scabriusculis subamplexicaulibus, inferioribus medio serratis, ramis corymbosis, foliolis*

calycinis laxis foliaceis subcuneiformibus acutiusculis squarrosis. *Willd. sp. pl. 3. p. 2048.*

In low meadows, on the sides of woods: Pennsylvania to Virginia. *Æ. Aug.—Nov. v. v.; v. s. in Herb. Lambert.* About two feet high; flowers large, blue.

57. *A. foliis oblongo-lanceolatis acuminatis sessilibus glabris margine scabris, inferioribus serratis, ramis corymbosis glabris, ramulis unifloris, calycinis squamis lanceolatis acuminatis patentibus.—Willd. sp. pl. 3. p. 2049.* *serotinus.*

In low grounds and on the banks of ditches: New York to Virginia. *Æ. Sept.—Nov. v. v.; v. s. in Herb. Lambert.* About three feet high; flowers large, blue.

58. *A. foliis sessilibus serratis glabris spathulato-lanceolatis basi attenuatis et margine utroque latere deflexis, ramis divaricatis, calycibus laxis, foliolis lanceolato-linearibus subæqualibus glabris.—Willd. sp. pl. 3. p. 2049.* *tardiflorus.*

In low overflowed grounds: New York to Virginia; rare. *Æ. Oct. Nov. v. v.* Flowers below the middle size; rays pale blue.

59. *A. foliis subamplexicaulibus oblongo-lanceolatis acuminatis serratis glabris, caule pyramidato-ramoso, ramis axillaribus racemifloris folio vix longioribus, pedunculis tomentosis nudis, calycibus laxis subæqualibus disco brevioribus.—Herb. Banks. mss.* *vlandus.*

In Canada. *Æ. Oct. Nov. v. s. in Herb. Banks.* Flowers above the middle size; rays pale purple.

60. *A. foliis lato-lanceolatis inferne attenuatis integris superne inæqualiter serratis longissime acuminatis, caule simplici flexuoso anguloso, panicula corymbosa divaricato-dichotoma, calycinis foliolis laxis linearibus disco brevioribus.—Mich. fl. amer. 2. p. 109.* *acuminatus.*

α. A. caule altiore, panicula multiflora foliosa. *elator.*

A. latifolius. Herb. Banks. et Lambert.

β. A. caule pumilo, corymbo paucifloro nudo vix foliis altiore. *pumilus.*

In Canada and on the Alleghany mountains, in rocky shady situations. *β.* On the highest mountains of Virginia and Carolina. *Æ. Aug.—Oct. v. v.* About a foot or more high; flowers middle-sized; rays white.

61. *A. foliis oblongis 3-nervibus basi angustatis acutis, superioribus sessilibus subintegerrimis, inferioribus petiolatis serratis, caule simplici apice corymboso, calyci-* *conyzoides.*

bus cylindricis squarrosis, radiis 5. brevissimis.—
Willd. sp. pl. 3. p. 2043.

A. marylandicus. Mich. fl. amer. 2. p. 108.

Conyza asteroides. Sp. pl. 1206.

In fields and woods: Pennsylvania to Carolina. *¶. Aug.*
—Oct. *v. v.* About a foot high; flowers small;
rays only five, white.

peregrinus. 62. *A. foliis sessilibus remotis oblongo-lanceolatis sensim acutis glabris, caule erecto subsimplici glabro superne hirtio summitate 1—3-floro, calycinis squamis lanceolato-linearibus villosis acutissimis laxis longitudine disci, radiis numerosis.—Herb. Banks. mss.*

On the north-west coast: Unalashka. *D. Nelson. ¶. v. s. in Herb. Banks.* Flowers large, violet.

Radula. 63. *A. foliis lanceolatis serratis acuminatis rugosis scaberrimis, caule erecto angulato simplici, corymbo terminali, calycibus imbricatis, foliolis lanceolatis obtusiusculis subsquarrosis.—Willd. sp. pl. 3. p. 2044.*

In Nova Scotia and on the high mountains of New York and Pennsylvania. *¶. Sept—Nov. v. v.; v. s. in Herb. Banks. et Lambert.* Flowers middle size; rays short, white.

strictus. 64. *A. foliis sessilibus angusto-lanceolatis serratis scabris, caule superne uno aut paucifloro, calycinis squamis imbricatis adpressis oblongis acutis discum subæquantibus.—Herb. Banks. mss.*

A. biflorus. Mich. fl. amer. 2. p. 114?

In Labrador, at Hudson's Bay, and on high mountains in Pennsylvania. *¶. Sept. Oct. v. v.; v. s. in Herb. Banks.* From four inches to a span high; flowers middle-sized; rays pale violet, disk brownish-yellow.

Tradescanti. 65. *A. foliis lanceolatis serratis sessilibus glabris, ramis virgatis, calycibus imbricatis, caule tereti glabro. Willd. sp. pl. 3. p. 2047.*

A. vimineus. Lam. encycl. 1. p. 306.

In hedges and dry swamps; frequent: Canada to Virginia. *¶. Aug.—Oct. v. v.; v. s. in Herb. Lambert.* Three or four feet high; flowers very small; rays white, and sometimes pale purple.

recurvatus. 66. *A. foliis sessilibus angusto-lanceolatis basi attenuatis, inferioribus medio serratis, caule ramoso glabro recurvato, calycinis squamis laxis imbricatis lineari-lanceolatis subæqualibus.—Willd. sp. pl. 3. p. 2047.*

A. salicifolius. Lam. encycl. 1. p. 306.

In fields and on road sides : New England to Pennsylvania. $\mathcal{A}$. Sept.—Nov. *v. v.* Resembles the preceding ; flowers pale blue.

67. *A. foliis lineari-lanceolatis acuminatis margine scabris, infimis subserratis, caule paniculato, ramulis unifloris, calycibus laxo imbricatis, foliolis lanceolatis.* *Willd. enum.* 886. *eminens.*

In North America. *Willdenow.* $\mathcal{A}$. Sept.—Nov. *v. v.* in *Herb. Lambert.* Flowers of middle size ; rays pale lilac, disk yellow, changing to red.

68. *A. foliis lineari-lanceolatis acuminatis margine scabris, infimis subserratis, caulinis subreflexis, rameis patentissimis, caule laxo apice paniculato, calycibus imbricatis, foliolis lanceolatis acutis apice reflexis.* *Willd. enum.* 886. *laxus.*

In low sandy fields : New Jersey to Virginia. $\mathcal{A}$. Sept.—Nov. *v. v.* Rays white ; disk yellow.

69. *A. foliis lanceolatis acuminatis margine scabris, caulinis apice serratis, rameis integerrimis, caule glaberrimo apice paniculato, calycibus laxo imbricatis, foliolis lineari-subulatis.* *Willd. enum.* 887. *simplex.*

In North America. *Willdenow.* $\mathcal{A}$. +. Rays white, disk yellow.

70. *A. foliis linearibus integerrimis, radicalibus oblongis subserratis, caule ramosissimo pubescente, calycibus laxo imbricatis.* *Willd. enum.* 888. *polyphyllus.*

In North America. *Willdenow.* $\mathcal{A}$. +. Rays white, disk yellow, changing to red or brown.

71. *A. foliis lanceolato-linearibus sessilibus glabris, infimis subserratis, ramulorum lanceolatis, caule paniculato glabro, ramis virgatis, calycibus imbricatis.* *Willd. sp. pl.* 3. p. 2050. *juncus.*

In swamps and ditches : Pennsylvania to Virginia. $\mathcal{A}$. Aug.—Oct. *v. v.* From four to six feet high ; flowers flesh-coloured.

72. *A. foliis lineari-lanceolatis sessilibus integerrimis glabris, infimis lanceolatis subserratis, caule ramoso diffuso glabriusculo, calycibus imbricatis, foliolis lanceolatis subpatulis.*—*Willd. sp. pl.* 3. p. 2050. *lanceolatus.*

In North America. *Willdenow.* $\mathcal{A}$. Aug.—Nov. +. Resembles the preceding ; flowers smaller, rays white, changing to a pale violet.

73. *A. foliis linearibus acuminatis integerrimis, inferioribus* *dracunculoides.*

lineari-lanceolatis subserratis, ramis corymbosis, calycibus imbricatis, caule glabriusculo. *Willd. sp. pl. 3. p. 2050.*

A. artemisiflorus. *Lam. encycl. suppl. 1. p. 500.*

In low grounds and on sides of ditches: New Jersey to Carolina. *¶*. Sept.—Nov. *v. v.*; *v. s. in Herb. Lambert.* About four feet or less high; flowers about half the size of No. 71, rays white.

fragilis.

74. *A. foliis linearibus acuminatis integerrimis, radicalibus oblongis serratis, ramis corymboso-paniculatis, calycibus imbricatis squamis adpressis, caule glabriusculo. Willd. sp. pl. 3. p. 2051.*

In North America. *Muhlenberg. ¶. v. s. in Herb. Lambert.* About two feet high; flowers white, smaller than the preceding. This and the three preceding species are very nearly allied to one another, so much so that it is difficult to find sufficient characters to distinguish them, though their general appearance and the size of the flowers separate them at first sight.

niser.

75. *A. foliis sessilibus lanceolatis serratis glabris, calycibus imbricatis, foliolis acutis, disco radii æquali, caule villosiusculo. Willd. sp. pl. 3. p. 2051.*

In old barren fields: Canada and New England. *¶*. Aug.—Oct. *v. v.*; *v. s. in Herb. Lambert.*

divergens.

76. *A. foliis elliptico-lanceolatis serratis glabris, caulinis lineari-lanceolatis elongatis, ramis patentibus, calycibus imbricatis, caule pubescente. Willd. sp. pl. 3. p. 2052.*

In old fields and barren woods: New York to Carolina. *¶*. Sept.—Nov. *v. v.*; *v. s. in Herb. Lambert.* From three to five feet high; flowers small; rays white, disk reddish-brown.

diffusus.

77. *A. foliis elliptico-lanceolatis serratis glabris proportionatis, ramis patentibus, calycibus imbricatis, caule pubescente. Willd. sp. pl. 3. p. 2052.*

In fields and hedges; frequent: Canada to Carolina. *¶*. Sept.—Nov. *v. v.*; *v. s. in Herb. Lambert.* Flowers white, small.

pendulus.

78. *A. foliis elliptico-lanceolatis serratis glabris, ramulorum remotiusculis, ramis divaricatissimis pendulis, caule pubescente. Willd. sp. pl. 3. p. 2052.*

In old fields; common. *¶*. Oct. Nov. *v. v.*; *v. s. in Herb. Lambert.* Resembles the preceding; but the

stem forms a loose panicle with pendulous branches; the disk turns brown.

637. DONIA. *Ait. kew. ed. 2. t. 4. p. 82.*

1. D. herbacea; foliis oblongis amplexicaulibus serratis, calycinis squamis apice filiformibus revolutis-squarrosis. *squarrosa.*

In open prairies, on the banks of the Missouri. *M. Lewis.* 24. Aug. Sept. *v. s. in Herb. Lewis.; v. v. cult.* Flowers yellow, resembling those of *Inula*. The whole plant is viscous, and has a strong resiniferous or balsamic scent.

Caulis erectus, teres, albidus, corymboso-ramosus. *Rami* alterni, angulati, apice uni- aut triflori. *Folia* alterna, basi dilatata, amplexicaulia, oblonga, acuta aut obtusa, serrata, glabra, utrinque squamulis punctiformibus resiniferis obsita. *Flores* 1—3. in summitate ramulorum, corymbosi, flavi, ante explicationem copiose resiniferi. *Calyx* hemisphæricus, arcte imbricatus: *Squamis* apice filiformibus, revolutis et quasi caput *Medusæ* referentibus. *Flosculi* radii lineari-lanceolatae, acutæ. *Semina* oblongo-obovata. *Pappus*: aristis 2—4. deciduis. *Receptaculum* planum, nudum, favulosum.

It approaches near to *Aster glutinosus* *Cav. ic. 2. p. 53. t. 168.* which is the *Donia glutinosa* *Ait. kew. ed. 2. t. 4. p. 82.* which I distinguish by the following diagnosis: *Donia glutinosa*: frutescens; foliis oblongo-obcuneatis sessilibus serratis, calycinis squamis linearibus erectis.

638. BCEBERA. *Willd. sp. pl. 3. p. 2125.*

1. B. caule paniculato, foliis oppositis subbipinnatis glabris acutis.—*Willd. sp. pl. 3. p. 2125.* *chrysanthemoides.*

Tagetes papposa. *Mich. fl. amer. 2. p. 132.*

Tagetes pumila. *Hort. pisan.*

Dyssodia glandulosa. *Cav. demonstr. bot. p. 202.*

On the overflowed banks of the Missouri and Mississippi. ☉. Aug. Sept. *v. s.* Flowers small, golden-yellow.

639. ACTINELLA. *Pers. syn.* 2. p. 469.Actinea. *Juss. in annal. mus.* 2. p. 425.*lanata.*

1. *A. undique lanato-tomentosa; foliis linearibus superne pinnatifidis, pedunculis elongatis unifloris, radiis bidentatis, seminibus glabris 5-gonis.*

On the high lands of the Kooskoosky. *M. Lewis.* 2. June, July. *v. s. in Herb. Lewis.* Flowers orange-yellow. It resembles in habit Jussieu's *Actinea*, in *Annal. du mus.* 2. t. 61. f. 2.

Planta omnibus partibus tomento albo lanato tecta. Caulis ramosus, teres. Rami alterni, superne subdivisi. Ramuli uniflori. Folia caulina alterna, linearia, superne dilatato-pinnatifida, dentata; ramea linearia, integra. Pedunculi terminales, elongati, superne incrassati. Flores aurantiaci, magnitudine Tagetidis erectæ. Calyx oblongus, simplex, polyphyllus: foliola 12—14. lineari-lanceolata, acuta. Corollulæ radii 12—14. oblongæ, bidentatæ, nervosæ: disci tubulosæ, concolores. Pappus: paleis 4—6. scariosis, albidis, acutis, interdum laceris. Semina prismatico-oblonga, 5-gona.

640. HELENIUM. *Gen. pl.* 1299.*autumnale.*

1. *H. foliis lanceolatis serratis subdecurrentibus, caule superne corymboso, corollulis disci 5-fidis: radii planis reflexis.*—*Willd. sp. pl.* 3. p. 2120.

pubescens.

Icon. *Pluk. amalth.* t. 372. f. 4. *Corn. canad.* 63.

- β. *H. foliis pubescentibus.* *Willd. sp. pl.* 3. p. 2121.

On the banks of rivers, ponds, and ditches: Canada to Carolina. 2. Oct. Nov. *v. v.* About two feet high; flowers bright yellow.

canaliculatum.

2. *H. foliis lanceolatis serratis subdecurrentibus, caulibus simplicibus, corollulis disci 5-fidis: radii canaliculatis.* *Lamarck in journ. hist. nat.* 213. t. 35.

quadridentatum.

3. *H. foliis lato-decurrentibus, inferioribus subpinnatifidis, superioribus lanceolatis integerimis glabris, corollulis disci 4-dentatis.*—*Willd. sp. pl.* 3. p. 2121.

Rudbeckia alata. Jacq. ic. rar. t. 593.

Icon. *Labillard. in act. soc. hist. nat. par.* 1. t. 4.

On the banks of the Mississippi. 2. July, Aug. *v. v.* From three to four feet high; flowers smaller than the preceding.

641. BOLTONIA. *Gen. pl.* 1309.

1. *B. foliis integerrimis, floribus longe pedunculatis, seminibus ovalibus glabris subnucis.*—*Willd. sp. pl.* 3. p. 2162. *asteroides.*

Matricaria asteroides. Linn. mant. 116.

Chrysanthemum carolinianum. Walt. fl. car. 204.

Icon. L'Herit. sert. angl. t. 25. *ined.*

On the banks of ponds and swamps: Carolina and Illinois. $\mathcal{U}$. Aug.—Oct. *v. s.* Rays flesh-coloured; disk yellow.

2. *B. foliis inferioribus serratis, floribus breviter pedunculatis, seminibus obcordatis conspicue alatis pubescentibus, aristis pappi duabus ipsorum longitudine.*—*Willd. sp. pl.* 3. p. 2163. *glastifolia.*

Icon. L'Herit. sert. angl. t. 26. *ined.*

On the banks of rivers and ponds. Pennsylvania to Virginia. $\mathcal{U}$. July, Aug. *v. v.* Resembles the preceding very much.

642. SIEGESBECKIA. *Gen. pl.* 1320.

1. *S. foliis sessilibus ovatis dentatis, floribus disci tridentatis triandris.* *Willd. sp. pl.* 3. p. 2220. *flosculosa.*

Icon. L'Herit. stirp. t. 19.

On the north-west coast. *M. Lewis.* ☉. July, Aug. *v. s. in Herb. Lewis.* Flowers yellow.

643. PHÆTHUSA. *Gen. pl.* 1319.

1. *P. foliis oppositis ovatis acuminatis serratis triplinerviis, corymbo terminali brachiato.*—*Willd. sp. pl.* 3. p. 2221. *americana.*

Icon. Pluk. mant. t. 342.

In North America. $\mathcal{U}$. +. I strongly suspect this to be the same with *Verbesina Siegesbeckia*, although Michaux declares it to be different.

644. ECLIPTA. *Gen. pl.* 1316.

1. *E. erecta, dichotoma, strigosa; foliis lanceolatis basi attenuatis rariter serratis, pedunculis geminis elongatis, calycinis foliolis ovatis acuminatis.*—*Willd. sp. pl.* 3. p. 2217. *erecta.*

Verbesina alba. Sp. pl. 1272.

Cotula alba. *Syst. nat.* 2. p. 564.

Icon. *Dill. elth.* t. 113. f. 137. *Pluk. alm.* t. 109. f. 1.

Moris. hist. 3. s. 6. t. 13. f. 16.

In dry gravelly soil : Virginia to Florida. ☉. June, July.
v. v. Flowers small, white.

- procumbens*. 2. *E. procumbente-assurgens* ; foliis longo-lanceolatis inferne angustatis rariter subserratis, pedunculis longiusculis, calycinis foliolis acute-lanceolatis, flosculis 4-fidis.—*Mich. fl. amer.* 2. p. 129.

In Lower Carolina. ☉. July, Aug. v. s. Flowers small, white.

- brachypoda*. 3. *E. divaricato-prostrata* ; foliis lanceolatis subserratis, pedunculis solitariis gemini-que brevibus, calycinis foliolis ovali-lanceolatis, flosculis 5-fidis.—*Mich. fl. amer.* 2. p. 130.

Amellus carolinianus. *Walt. fl. car.* 213.

In low sandy fields : Carolina. ☉. July, Aug. v. v.

645. ANTHEMIS. *Gen. pl.* 1312.

- arvensis*. 1. *A. receptaculis conicis*, paleis lanceolatis, seminibus coronato-marginatis, foliis bipinnatis laciniis lanceolato-linearibus. *Willd. sp. pl.* 3. p. 2180.

Icon. *Engl. bot.* 602.

In waste grounds and on road sides : Pennsylvania to Virginia. ♂. ☉. Aug. Sept. v. v. Rays white, disk yellow.

- repens*. 2. *A. caule repente*, foliis ovali-lanceolatis subintegris, pedunculis terminalibus unifloris longissimis, calycibus subæqualibus 10—12-phyllis.—*Walt. fl. car.* 211.

Spilanthus repens. *Mich. fl. amer.* 2. p. 131.

On overflowed banks of rivers : South Carolina. ☉. July—Sept. v. v. Flowers yellow.

646. ACHILLEA. *Gen. pl.* 1313.

- Ptarmica*. 1. *A. foliis linearibus acuminatis æqualiter argute serratis glabris*. *Willd. sp. pl.* 3. p. 2191.

Icon. *Fl. dan.* 643. *Engl. bot.* 757.

In open dry swamps : Canada and New York. ♀. Aug. Sept. v. v. Flowers white.

- asplenifolia*. 2. *A. foliis radicalibus bipinnatifidis, caulinis incisis, laciniis ovatis serrato-mucronatis obtusis*.—*Vent. hort. cels* 95.

In North America. *Bosc.* 2. +. Flowers rose-coloured.

3. *A. foliis bipinnatifidis pilosis laciniis linearibus dentatis mucronatis, caulibus sulcatis.* *Smith fl. brit.* 2. p. 908. *Millefolium.*
Willd. sp. pl. 3. p. 2208.

Icon. *Fl. dan.* 737. *Engl. bot.* 758.

In fields and on road sides; common. 2. June—Aug.
v. v. Probably introduced from Europe. Flowers white or rose-coloured.

4. *A. foliis bipinnatifidis villosis, pinnis confertissimis, laciniis lineari-lanceolatis integerrimis; corymbo composito.* *Willd. sp. pl.* 3. p. 2209. *tomentosa.*

Icon. *Bot. mag.* 498. *Gmel. it.* 1. t. 25. f. 2.

On the banks of the Kooksosky. *M. Lewis.* 2. June.
v. s. in Herb Lewis. Flowers yellow.

647. TETRAGONOTHECA. *L'Herit. stirp.* p. 177.

1. *T. hirsutissima; foliis oppositis amplexicaulibus spathulato-ovatis, summis ovatis acuminatis dentatis triplinerviis.*—*Willd. sp. pl.* 3. p. 2116. *helianthoides.*

Polymnia tetragonotheca. *Syst. veg.* 658.

Icon. *Dill. elth.* t. 283. f. 365.

In fertile soil, on the borders of woods and along hedges: Virginia to Florida. 2. July—Sept. *v. v.* From four to six feet high; flowers large, yellow.

648. HELIOPSIS. *Pers. syn.* 2. p. 473.

1. *H. foliis oppositis ovatis serratis triplinerviis.* *Pers. syn.* 2. p. 473. *lævis.*

Bupthalamum helianthoides. *Willd. sp. pl.* 3. p. 2236.

Helianthus lævis. *Sp. pl.* 1278.

Rudbeckia oppositifolia. *Sp. pl.* 1280.

Silphium solidaginoides. *Sp. pl.* 1302.

On the banks of rivers, and in rocky shady places: Pennsylvania to Carolina. 2. Aug.—Oct. *v. v.* A tall plant, resembling a species of *Helianthus*.

649. BUPHTHALMUM. *Gen. pl.* 1231.

1. *B. foliis oppositis cuneato-lanceolatis carnosis incanis, petiolis bidentatis, caule fruticoso.*—*Willd. sp. pl.* 3. p. 2229. *frutescens.*

Icon. *Dill. elth.* t. 28. f. 4. *Pluk alm. t.* 115. f. 4.

Catesb. fl. car. 1. t. 93.

On the sea-coast : Virginia to Florida. $\frac{1}{2}$. Aug. Sept.
v. v. A shrub about five feet high.

angustifolium. 2. B. foliis alternis linearibus superne latioribus integerrimis glabris, calycinis foliolis acute-lanceolatis.—*Herb. Banks. mss.*

In Georgia and Florida. *Bartram.* $\frac{1}{4}$. v. s. in *Herb. Banks.*

sagittatum. 3. B. tomentosum ; foliis radicalibus longissime petiolatis oblongis sagittatis integerrimis subtrinerviis, caulinis oblongis in petiolum attenuatis, caule subtrifloro, calycinis foliolis exterioribus disco longioribus.

On dry barren hills, in the Rocky-mountains. *M. Lewis.* $\frac{1}{4}$. June, July. v. s. in *Herb. Lewis.* Flowers large, yellow. The natives eat the young stems as they spring up, raw.

650. AMELLUS. *Gen. pl.* 1315.

villosus. 1. A. villosissimus ; foliis sessilibus oblongis acuminatis integerrimis, floribus axillaribus brevi-petiolatis, radiis integris, paleis setaceis.

On the Missouri. $\frac{1}{4}$. v. s. Rays yellow.

spinulosus. 2. A. canescens ; foliis bipinnatifidis inciso-dentatis, laciniis linearibus rigido-mucronatis, floribus lateralibus et terminalibus congestis, radiis bidentatis, paleis setaceis. In open prairies on the Missouri. *M. Lewis.* $\frac{1}{4}$. Aug. Sept. v. s. in *Herb. Lewis.* Rays yellow.

Tota planta rigida, scabra, cano-viridescens. Caulis ramosissimus. Rami angulosi. Ramuli laterales breves, uniflori. Folia alterna, bipinnatifida, rigida, laciniis linearibus, spinula terminatis, inferioribus inciso-dentatis. Flores laterales solitarii et terminales congesti, subcorymbosi, lutei. Calyx imbricatus : squamis exterioribus brevioribus, acutis, hirsutis ; interioribus linearibus, scariosis. Corollulæ radii lineari-lanceolatæ, bidentatæ. Receptaculum : Paleis brevibus, subulatis.

Both species are an intermediate link between *Aster* and *Inula*. They approach the nearest to *Amellus* ; but the receptacle is not, properly speaking, paleaceous, but only setaceous.

651. VERBESINA. *Gen. pl.* 1317.

virginica. 1. V. caule angusto alato, foliis alternis lato-lanceolatis subserratis, corymbo composito, calycibus oblongis pubescentibus.—*Willd. sp. pl.* 3. p. 2222.

In shady woods on the mountains: Pennsylvania to Carolina. $\mathcal{U}$. July—Sept. *v. v.* Rays from three to four, white.

2. *V. caule alato, foliis oppositis ovato-lanceolatis utrinque acuminatis acute serratis, panicula brachiata, ramulis summitate fasciculifloris.*—*Willd. sp. pl.* 3. *p.* 2224. *Siegesbeckia.*

Siegesbeckia occidentalis. Sp. pl. 1269.

In shady woods: Virginia to Carolina. $\mathcal{U}$. July—Sept. *v. v.* Rays from one to three, yellow. It has a strong resemblance to *Phæthusa*.

3. *V. caule alato, foliis alternis lanceolatis serratis, panicula corymbosa laxa foliosa, calycibus laxis patulis, disco subgloboso.*—*Mich. fl. amer.* 2. *p.* 134. *Coreopsis.*

Coreopsis alternifolia. Willd. sp. pl. 3. *p.* 2257.

- α . *V. radiata aut flosculosa luteiflora. Mich. l. c.* *lutea.*
Icon. *Jacq. hort. vind. t.* 110. *Pluk. alm. t.* 159. *f.* 3.

- β . *V. semper flosculosa albiflora. Mich. l. c.* *alba.*
Athanasia paniculata. Walt. fl. car. 201.

In the mountains of Virginia and Carolina. β . On the Carolina coast. $\mathcal{U}$. July—Sept. *v. v.* From three to seven feet high; flowers yellow. The white variety I have only seen in the Walterian Herbarium, and I strongly suspect it to be a very distinct species.

4. *V. caule alato, foliis alternis lato-lanceolatis acutis leviter dentatis subtus albido-villosis, supra aspero-pubescentibus, pedunculis unifloris aggregatis.*—*Mich. fl. amer.* 2. *p.* 135. *helianthoides.*

In the western parts of the Allegany mountains: Tennessee and Illinois. $\mathcal{U}$. Aug. Sept. *v. s.* Flowers like *Helianthus*.

652. ZINNIA. *Gen. pl.* 1304.

1. *Z. floribus pedunculatis, foliis oppositis ovato-lanceolatis subpetiolatis.* *Willd. sp. pl.* 3. *p.* 2139. *multiflora.*

Icon. *Linn. dec. t.* 12. *Jacq. obs. 2. t.* 40. *Bot. mag.* 149.

On the banks of the Mississippi. $\odot$. July, Aug. *v. v.* Rays yellow, orange, and sometimes brick-red.

III. FRUSTRANEA.

653. BIDENS. *Gen. pl.* 1267.

- cernua*. 1. B. floribus subradiatis cernuis, calyce exteriore flore longiore, foliis lanceolatis subconnatis dentatis. *Willd. sp. pl.* 3. p. 1716.
Icon. *Fl. dan.* 841. *Curtis fl. lond.* 3. t. 55. *Pet. hort. brit.* t. 20 f. 6.
- minima*. β. B. foliis lanceolatis sessilibus, floribus seminibusque erectis. *Sp. pl.* 1165.
Icon *Fl. dan.* 312. *Dill. in Raii syn.* t. 7. f. 2.
- Coreopsis*. γ. B. foliis lanceolatis serratis oppositis amplexicaulibus. *Sp. pl.* 1281.
Icon. *Barrel. ic.* t. 1209. *Læss. fl. pruss.* t. 11.
About ponds, ditches and springs: Canada to Pennsylvania. ☉. Aug. Sept. The flowers of this and all the following species are yellow, and the most of them are either without or with rays.
- chrysanthemoides*. 2. B. floribus radiatis cernuis, radio calyci subæquali triplo longiore, foliis oblongis utrinque attenuatis dentatis basi connatis. *Willd. sp. pl.* 3. p. 1717. *Mich. fl. amer.* 2. p. 136.
Coreopsis flammula. Herb. Banks. mss.
Coreopsis perfoliata. Walt. fl. car. 215.
In overflowed places and about ponds: New England to Carolina. ☉. Aug.—Oct. v. v. Flowers large, bright yellow. The awns of the seeds are by two, three, or four; not always by two, as Michaux asserts.
- frondosa*. 3. B. floribus discoideis, calyce exteriore flore sexduplo longiore, foliolis basi ciliatis, foliis inferioribus pinnatis, superioribus ternatis lanceolatis serratis. *Willd. sp. pl.* 3. p. 1718.
Icon. *Moris. hist.* 3. s. 6. t. 5. f. 21.
In shady fertile woods and fields: Pennsylvania to Carolina. ☉. July—Oct. v. v.
- connata*. 4. B. floribus discoideis, calyce exteriore flore triplo longiore, foliis caulinis ternatis, foliolis lateralibus connatis, floralibus oblongo-lanceolatis. *Willd. sp. pl.* 3. p. 1718.
In fields and woods; frequent: Canada to Carolina. ☉. July—Oct. v. v.
- pilosa*. 5. B. floribus discoideis, calyce exteriore longitudine interioris, foliis inferioribus pinnatis, superioribus ter-

natis, foliolis oblongis, terminali lanceolato reliquis duplo longiore. *Willd. sp. pl. 3. p. 1720.*

Icon. *Dill. elth. t. 43. f. 51.*

In old fields and cultivated grounds: Pennsylvania to Carolina. ☉. July—Oct. *v. v.* A common weed.

6. *B. floribus subradiatis, calyce exteriori longitudine interioris, foliis bipinnatis, foliolis lanceolatis pinnatifidis.* *Willd. sp. pl. 3. p. 1721.*

bipinnata.

Icon. *Herm. parad. t. 123. Moris. hist. 3. s. 6. t. 7. f. 23.*

A common weed in all old fields. ☉. July—Oct. *v. v.*

654. COREOPSIS. *Gen. pl. 1325.*

* *Foliis oppositis, indivisis.*

1. *C. foliis sessilibus lanceolato-linearibus integerrimis ciliatis, pedunculis elongatis nudis, seminibus orbiculatis scabris alatis apice bidentatis emarginatis.*—*Willd. sp. pl. 3. p. 2256.*

lanceolata.

Icon. *Dill. elth. t. 48. f. 56. Mart. cent. 26.*

- β. *C. caule foliisque canescenti-villosis.* *Mich. fl. amer. 2. p. 137.*

villosa.

C. crassifolia. *Willd. sp. pl. 3. p. 2256.*

In mountainous situations: Virginia and Carolina. ♀. Aug.—Oct. *v. v.* Flowers deep yellow; rays broad with four or five teeth.

2. *C. glabra; foliis petiolatis lanceolato-ovatis sensim acuminatis argute serratis, pedunculis axillaribus terminalibusque dichotome-corymbosis.*

arguta.

In Carolina. *P. Miller. ♀. v. s. in Herb. Banks.* Flowers middle size. This and all the rest are of a bright yellow colour.

3. *C. foliis ovatis acuminatis serratis petiolatis triplinerviis decurrentibus.*

alata.

In Virginia. *Bartram. ♂. v. s. in Herb. Banks.*

4. *C. foliis ovatis acuminatis crenato-dentatis, dentibus mucronatis, petiolis brevibus, radiis integris, seminibus cuneato-oblongis apteris apice nudis.*—*Willd. sp. pl. 3. p. 2257. Mich. fl. amer. 2. p. 137.*

latifolia.

On the high mountains of Virginia and Carolina. ♀. July—Sept. *v. v.* A tall growing species; flowers rather small.

** *Foliis oppositis, divisis.*

- aristata.* 5. *C. pubescens*; foliis quinato-pinnatis serratis, radiis integris lato-ovalibus, seminibus cuneato-obovatis biaristatis, aristis divaricatis.—*Willd. sp. pl.* 3. p. 2253.
C. aristosa. *Mich. fl. amer.* 2. p. 140.
 In South Carolina and Illinois. ♀. Aug. Sept. v. s.
 Flowers large; rays very broad.
- trichosperma.* 6. *C. glabella*, dichotoma; foliis subquinato-pinnatis lanceolatis serratis, calycis exterioris foliolis (8) spathulatis ciliato-serratis, radiis integris, seminibus cuneatis sub-4-dentatis.—*Willd. sp. pl.* 3. p. 2252. *Mich. fl. amer.* 2. p. 139.
 In cedar-swamps: New Jersey and Carolina. ♂. Aug.—Oct. v. v. Flowers small; resembles *C. coronata*.
- auriculata.* 7. *C. pubescens*; foliis subsessilibus ovali-lanceolatis integerrimis, inferioribus ternatis, calyce exteriori profunde partito, radiis 4-dentatis, seminibus subrotundo-obovatis apice emarginato-bidentatis.—*Willd. sp. pl.* 3. p. 2256.
 Icon. *Pluk. alm. t.* 83. f. 5. ♂ *t.* 242. f. 4.
 On the high mountains of Virginia and Carolina. ♀. Aug.—Oct. v. v.
- tripteris.* 8. *C. glabra*; foliis petiolatis lanceolatis integerrimis, radicalibus pinnatis, caulinis ternatis, radiis integris, seminibus obovatis apice nudis.—*Willd. sp. pl.* 3. p. 2253.
 Icon. *Moris. hist.* 3. s. 6. t. 3. f. 44.
 On high mountains: Virginia to Carolina. ♀. Aug.—Oct. v. v.
- senifolia.* 9. *C. subpubescens*; foliis sessilibus integerrimis ternatis, radiis integris, seminibus cuneato-oblongis.—*Willd. sp. pl.* 3. p. 2254.
C. major. *Walt. fl. car.* 214.
C. stellata. *Herb. Banks. mss.*
 On dry stony hills, in the mountains of Virginia and Carolina. ♀. Aug.—Oct. v. v.
- aurea.* 10. *C. foliis serratis*, radicalibus 3-partitis, caulinis trifidis integrisque lanceolato-linearibus. *Willd. sp. pl.* 3. p. 2253.
 In North America. ♀. +.
- trifida.* 11. *C. glabra*; foliis trifidis subulatis fasciculatis, pedunculis terminalibus unifloris, radiis 3-fidis, caule subflexuoso.—*Lam. encycl. suppl.* 2. p. 353.

Icon. *Lam. illustr. t. 704. f. 2.*

In North America. *Lamarck. 2. +.* Resembles
C. verticillata.

12. *C. foliis verticillatis ternis quinisve pinnatis, pinnis linearibus tripartitis indivisisque, disco concolore. Willd. sp. pl. 3. p. 2252.*

tenuifolia.

C. verticillata. Lam. encycl. 2. p. 103.

Icon. *Pluk. mant. t. 344. f. 4.*

On high dry mountain lands: Virginia and Carolina. *2.*
Aug.—Oct. *v. v.*

13. *C. foliis verticillatis ternis quinisve pinnatis, pinnis linearibus tripartitis indivisisque, disco discolore. Willd. sp. pl. 3. p. 2151.*

verticillata.

C. delphinifolia. Lam. encycl. 2. p. 108.

Icon. *Bot. mag. 156. Ehret pict. t. 9. f. 1.*

On high mountains: Virginia and Carolina. *2.* Aug.
—Oct. *v. v.*

14. *C. glabra; foliis petiolatis, inferioribus bipinnatifidis, superioribus lineari-3-partitis, calycibus simpliciusculis, seminibus nudis.—Willd. sp. pl. 3. p. 2253.*

mitis.

In low grounds of Carolina. *Michaux. On the Missouri. M. Lewis. ♂. July, Aug. v. v.*

*** *Foliis alternis.*

15. *C. foliis ovato-lanceolatis acutis denticulatis subhirtis, floribus corymboso-paniculatis.*

acuta.

In Georgia. *Bartram. ♂. v. s. in Herb. Banks.*

16. *C. caule glabro superne nudiusculo dichotomo, foliis plerumque alternis indivisis integerrimis in petiolum angustatis, seminibus obovatis bisetosis scabris, ala marginali fimbriato-lacera.—Mich. fl. amer. 2. p. 137.*

dichotoma.

C. gladiata. Walt. fl. car. 215.

In shady sphagnous swamps of New Jersey and Carolina. ☉. July—Oct. *v. v.*

17. *C. foliis ellipticis acuminatis serratis petiolatis venosis decurrentibus, inferioribus verticillatis, superioribus alternis. Willd. sp. pl. 3. p. 2258.*

procera.

In North America. *Aiton. 2. +.*

18. *C. foliis lineari-lanceolatis integerrimis lævibus, radiis oblongis trifidis, lacinia media majore.—Willd. sp. pl. 3. p. 2257.*

angustifolia.

In Carolina and Florida. *Bartram. 2. v. s. in Herb. Banks.*

aspera.

19. *C. foliis lanceolato-linearibus asperis, superioribus alternis, inferioribus oppositis, caule uniflora.*
In Maryland. *v. s. in Herb. Banks.*

655. *HELIANTHUS*. *Gen. pl.* 1322.* *Foliis oppositis.**atrorubens.*

1. *H. totus hispidus; caule superne nudiusculo laxè paniculato, foliis spathulatis ovatis crenatis triplinervibus scabris, squamis calycinis ovato-lanceolatis longitudine disci atropurpureo.—Willd. sp. pl. 3. p. 2245.*

Icon. *Dill. elth. t. 94. f. 110.* *Mart. cent. t. 20.*

In gravelly and slate soil, in the western parts: Pennsylvania to Carolina. $\mathcal{U}$. ♂. Aug. Sept. *v. v.* Rays yellow; disk dark purple.

pubescens.

2. *H. cano-pubescens; caule villosa, foliis sessilibus cordato-ovatis amplexicaulibus triplinervibus adpresso-sub serratis, calycinis squamis lanceolatis villosis.—Willd. sp. pl. 3. p. 2244.*

H. mollis. Lam. encycl. 3. p. 81.

H. canescens. Mich. fl. amer. 2. p. 140.

In wet meadows of Kentucky and Tennessee. ♂. Aug.—Oct. *v. s.* Both ray and disk are yellow, which is the case with all the following species.

divaricatus.

3. *H. caule glabro ramosissimo, foliis suboppositis sessilibus lanceolato-ovatis trinervibus, panícula trichotoma gracili parviflora.—Willd. sp. pl. 3. p. 2244.*

Icon. *Moris. hist. 3. s. 6. t. 7. f. 66. mala.*

On the borders of woods and in hedges: Canada to Pennsylvania. $\mathcal{U}$. Aug.—Nov. *v. v.* About five or six feet high; flowers smaller than any other species here enumerated.

frondosus.

4. *H. caule inferne glabro, foliis ovatis argute serratis, pedunculis scabris, calycibus squarrosis undulatis frondosis ciliatis, radiis 8-floris.—Willd. sp. pl. 3. p. 2241.*

In Canada. $\mathcal{U}$. +. About four feet high; resembles *H. decapetalus* and *multiflorus* in several respects, but is distinct.

trachelifolius.

5. *H. foliis ovato-lanceolatis acuminatis serratis triplinervibus utrinque scaberrimis, calycinis squamis lineari-lanceolatis ciliatis, exterioribus longioribus. Willd. sp. pl. 3. p. 2241.*

H. Gigas. Mich. fl. amer. 2. p. 141.

In woods and dry swamps: Canada to Carolina. *¶*.
Aug.—Oct. *v. v.* Resembles *H. decapetalus*. About
three feet high.

6. *H. glaberrimus*; caule paniculato, ramis summitate
paucifloris, foliis subsessilibus longissime-lanceolatis
triplinerviis integerrimis, inferioribus serratis, caly-
cinis squamis ovatis acutis, exterioribus linearibus di-
va icatis. *longifolius*.

In the western parts of Georgia. *Lyon*. *¶*. Aug.—
Oct. *v. v.* From four to seven feet high; stem dark
purple and very smooth; flowers middle size.

*** Foliis superioribus alternis.*

7. *H. foliis alternis lanceolatis serratis scabris obsolete tri-
plinerviis utrinque attenuatis subsessilibus basi cilia-
tis, calycinis squamis lanceolatis ciliatis. Willd. sp.
pl. 3. p. 2242. giganteus,*

In dry swamps and on mountain meadows: Canada to
Carolina. *¶*. Aug.—Oct. *v. v.* A tall, rough-
looking plant; horses are fond of its young shoots.
Stems rough and green.

8. *H. foliis alternis ovato-lanceolatis serratis scabris tripli-
nerviis, apice attenuatis petiolatis, petiolis ciliatis,
calycinis squamis lanceolatis ciliatis. Willd. sp. pl. 3.
p. 2243. altissimus.*

Icon. *Jacq. hort. vind. t. 160.*

In copses and mountain meadows: Pennsylvania to Caro-
lina. *¶*. July—Sept. *v. v.* Resembles the pre-
ceding; stems smooth and purple; the chaff of the
receptacle is green in this species, but black in the pre-
ceding.

9. *H. foliis ovatis acuminatis serratis triplinerviis subtus
scabris, calycinis squamis lineari-lanceolatis basi cili-
atis. Willd. sp. pl. 3. p. 2242. strumosus.*

Icon. *Bocc. sic. t. 27. f. 4.*

In Canada and New England. *¶*. Aug.—Oct. *v. v.*

10. *H. caule debili prostrato, foliis lanceolatis acuminatis
scabris serratis triplinerviis, superioribus integerrimis,
calycinis squamis lanceolatis ciliatis.—Willd. sp. pl. 3.
p. 2242. prostratus.*

In North America. *Willdenow. ¶. +.*

11. *H. foliis ovatis acuminatis remote serratis triplinerviis
scabris, calycinis squamis lanceolatis subæqualibus decapetalus.*

subciliatis, radiis denis duodenisve.—*Willd. sp. pl.* 3. p. 2241.

Icon. *Rob. ic.* 235.

In dry stony soil, in woods, and on road sides: Canada to Virginia. $\mathcal{A}$. Aug—Oct. *v. v.* About three or four feet high. Resembles the following.

- multiflorus.* 12. *H. foliis triplinervibus scabris, inferioribus cordatis, superioribus ovatis, radio multifloro, calycinis squamis lanceolatis.* *Willd. sp. pl.* 3. p. 2239.

Icon. *Bot. mag.* 227. *Fluk. phytogr. t.* 159. *f.* 2.

In dry mountain woods: Pennsylvania to Carolina. $\mathcal{A}$. July—Sept. *v. v.*

- mollis.* 13. *H. foliis ovatis acuminatis triplinervibus adpresso-serratis supra scabris, subtus cano-pubescentibus mollissimis, calycinis squamis lanceolatis adpressis.* *Willd. enum.* 920. *Willd. sp. pl.* 3. p. 2240.

H. tomentosus. *Michx. fl. amer.* 2. p. 141.

In exsiccated swamps: Pennsylvania and Virginia. $\mathcal{A}$. July—Oct. *v. v.* Leaves very rough on the upper surface, and soft underneath.

- macrophyllus.* 14. *H. foliis ovatis acuminatis triplinervibus serratis supra scabris, subtus cano-pubescentibus, calycinis squamis linearibus squarrosis.* *Willd. hort. berol.* 70. *cum icone.*

In Pennsylvania and Virginia, on the borders of woods. $\mathcal{A}$. Aug.—Oct. *v. v.*

- angustifolius.* 15. *H. caulibus gracilibus subunifloris, foliis linearibus margine revolutis asperis.*—*Willd. sp. pl.* 3. p. 2244.

Rudbeckia angustifolia. *Willd. sp. pl.* 3. p. 2250.

Icon. *Mill. ic. t.* 224. *f.* 2.

In cedar-swamps: New Jersey to Florida. $\mathcal{A}$. Sept.—Nov. *v. v.* Rays deep yellow, disk brown.

656. GALARDIA. *Gen. pl.* 1323.

bicolor.

1. *G. caule ramoso, foliis amplexicaulibus lanceolatis inciso-dentatis obtusis, paleis pappi integerrimis aristatis.*—*Willd. sp. pl.* 3. p. 2245.

G. lanceolata. *Michx. fl. amer.* 2. p. 142.

Gaillardia pulchella. *Fougeroux act. par.* 1785.

Colonnea pulcherrima. *Buchoz. ic. t.* 126.

Virgilia helioides. *L'Herit. monog. Smith. exot. bot.* p. 71. *t.* 37.

Leysera caroliniana. *Walt. fl. car.* 211. *secundum Herb.*
Icon. Lam. illustr. t. 708.

In dry sandy soil: Carolina to Florida. ☉. July, Aug.
v. v. About two feet high; flowers large and very
 showy; rays orange with red towards the base, disk
 dark purple with orange.

2. *G. caule simplicissimo unifloro, foliis radicalibus obovatis, caulinis linearibus, paleis pappi laceris.* *Willd. sp. pl.* 3. *p.* 2246.

fimbriata.

In open swamps of Carolina and Florida. *Michaux.*

+

3. *G. hirsutissima, scabra; caule ramoso, foliis linearilanceolatis sessilibus, paleis pappi (5—7) ovato-lanceolatis longissime aristatis.*

aristata.

On dry hills on the Rocky-mountains. *M. Lewis.* ♂.
v. s. in Herb. Lewis. Flowers orange-coloured.

Planta hirsutissima. Caulis erectus, teres, ramosus. Rami uniflori. Folia caulina alterna, longe-linearilanceolata, sessilia, scabra, hirsutissima. Calyx subimbricatus, polyphyllus: foliolis lineari-oblongis, acutissimis, disco duplo longioribus, margine coloratis. Corollulæ: Radii circiter 12. obcuneatæ, 3-fidæ: laciniis oblongis, subæqualibus, obtusiusculis, Disci tubulosæ, 5-fidæ: laciniis extus purpurascensibus hirsutissimis. Receptaculum in ambitu subpaleaceum, centro setosum. Pappus: paleis 5—7. scariosis, ovatis, longissime-setaceo-aristatis.

657. RUDBECKIA. *Gen. pl.* 1324.

1. *R. aspera; foliis inferioribus lato-ovatis basi attenuatis remote dentatis, caulinis lanceolato-ovatis utrinque acuminatis subintegerrimis, radiis longissimis dependentibus bifidis.*—*Willd. sp. pl.* 3. *p.* 2249.

purpurea.

Icon. Bot. mag. 2. *Catesb. car.* 2. *t.* 59. *Pluk. alm.* *t.* 21. *f.* 1.

In the mountains: Virginia to Florida. ♀. Aug.—Oct. *v. v.* A highly ornamental perennial; flowers large, rays purple, disk brown.

2. *R. glabra; foliis oblongo-lanceolatis cordatis amplexicaulibus, inferioribus serratis, disco cylindraceo-conico.*—*Willd. sp. pl.* 3. *p.* 2249.

amplexifolia;

R. amplexicaulis. Vahl in act. soc. nat. scrut. haf. 2. *p.* 29. *t.* 4.

R. perfoliata. Cav. *ic.* 3. p. 27. t. 252.

Icon. *Jacq. ic. rar.* 3. t. 592.

In Lower Louisiana, on the banks of the Mississippi.

○. July, Aug. *v. v.* Flowers deep yellow.

lævigata.

3. *R. undique glaberrima*; caule lævigato paniculato, ramis corymbosis, pedunculis elongatis unifloris, foliis ovato-lanceolatis utrinque acuminatis triplinerviis integerrimis aut dente uno alterove instructis lævigatis, calycinis foliolis lanceolatis longitudine radii.

In Georgia. *Lyon. ♀. v. s. in Herb. Lambert.* Rays pale yellow, short.

discolor.

4. *R. ramis corymbosis unifloris, pedunculis nudis elongatis, foliis lanceolatis strigoso-pilosis subintegerrimis, calycinis foliolis ovatis acutis, petalis lanceolatis integerrimis discoloribus longitudine calycis.*

In Florida. *Bartram. ♀. v. s. in Herb. Banks.* Flowers small, rays yellow, and deep orange or purple underneath.

spathulata.

4. *R. gracilis, pubescens*; caulibus unifloris, foliis obovato-spathulatis integerrimis, calyce patulo imbricato, radiis tridentatis.—*Willd. sp. pl.* 3. p. 2249.

R. gracilis. Herb. Banks. mss.

In the mountains of Carolina. *Michaux.* In Florida. *Bartram. ♂. July, Aug. v. s. in Herb. Banks.*

aristata.

5. *R. caule hispido, ramis elongatis corymbosis unifloris, foliis lanceolato-oblongis serratis hispidis, disco subhemisphærico, paleis pappi subulatis aristatis.*—*Herb. Banks. mss.*

In South Carolina. *v. s. in Herb. Banks.* Flowers small, deep yellow.

fulgida.

6. *R. caule hispido, ramis virgatis elongatis unifloris, foliis oblongo-lanceolatis denticulatis hispidis basi angustatis subcordatis, calyce foliaceo radium subæquante, disco hemisphærico, paleis lanceolatis.*—*Willd. sp. pl.* 3. p. 2248.

In mountain meadows and woods: Pennsylvania to Carolina. *♀. July—Oct. v. v.* Rays dark orange-coloured, disk deep purple.

hirta.

7. *R. hirsutissima*; caulibus virgatis subramosis unifloris, pedunculo nudo, foliis ovato-spathulatis triplinerviis serratis hirtis, calyce foliaceo radium subæquante, disco conico, paleis lanceolatis.—*Willd. sp. pl.* 3. p. 2248.

Icon. *Dill. elth. t.* 218. f. 285. *Pluk. alm. t.* 242. f. 2.

In the mountains: Virginia to Florida. ♂. July—Sept. *v. v.* Resembles the preceding; rays yellow, disk dark brown.

8. *R. caule inferne hispido, superne glabro nudiusculo, pedunculis longissimis unifloris, foliis ovatis attenuatis tuberculatis hispidis, calycibus imbricatis, squamis ovatis acuminatis ciliatis.*

Radula.

In Georgia. *Bartram. ♂. v. s. in Herb. Banks.*

9. *R. hispido-pilosa; caule paniculato, ramis divaricatis multifloris foliosis, foliis lanceolatis utrinque acuminatis serratis, inferioribus trilobis, calycinis foliolis linearibus deflexis longitudine radii.—Willd. sp. pl. 3. p. 2247.*

triloba.

Icon. *Pluk. alm. 22. f. 2.*

In the Virginia and Carolina mountains. ♀. ♂. Aug. Sept. *v. v.* About four or five feet high; flowers small, pale yellow.

10. *R. brevi pubescentia subtomentosa; caule ramoso, ramis erectis multifloris, foliis oblongo-lanceolatis acutis subserratis, inferioribus trilobis, calycinis foliolis incumbentibus radio brevioribus.*

subtomentosa.

R. triloba β. *Mich. fl. amer. 2. p. 144.*

In mountain meadows: Virginia and Illinois. ♀. Aug. Sept. *v. v.* Not near so high as the preceding, from which it is very distinct, though Michaux considers it only a variety.

11. *R. caule stricto simplici summitate paucifloro, pedunculis elongatis, foliis pinatifidis incis, laciniis linearibus, calyce simplici 5-phyllo, radiis 5—8., disco cylindraceo elongato.*

columnaris.

R. columnifera. Fraser catal. 1813.

On the Missouri. *v. s.* The singular appearance of the receptacle of this plant distinguishes it from all the other known species.

12. *R. foliis inferioribus pinnatis, pinnis 3-lobis, summis ovatis, pappo crenato, caule glabro. Schrad. new. journ. 2. p. 61. Willd. enum. 921.*

laciniata.

Icon. *Moris. hist. 3. s. 6. t. 6 f. 53. Corn. canad. t. 179.*

On the edges of swamps and ditches: Canada to Virginia. ♀. Aug.—Oct. *v. v.* From five to ten feet high.

13. *R. foliis inferioribus pinnatis, pinnis pinatifidis, superioribus simplicibus pinnatis, summis 3-fidis, pappo*

digitata.

crenato, caule lævi. *Schrad. new. journ.* 2. p. 61.
Willd. enum. 921.

Icon. *Moris. hist.* 3. s. 6. t. 6. f. 54.

In the mountains of Virginia and Carolina. 24. Aug.—
 Oct. v. v. Resembles the preceding.

pinnata.

14. R. foliis omnibus pinnatis, pinna una alterave inferiori bipartita, reliquis indivisis, pappo integerrimo, caule sulcato hispido. *Schrad. new. journ.* 2. p. 61.
Willd. enum. 921. *Mich. fl. amer.* 2. p. 144.

R. digitata. *Willd. sp. pl.* 3. p. 2247. excl. syn. *Morison. et Aiton.*

R. odorata. *Hortul.*

Icon. *Smith exot. bot.* 38. *Vent. jard. cels* 71.

In the western parts of Carolina and Georgia. 24. July—Oct. v. v. Flowers very showy, of an anise scent; rays long, bright yellow, hanging downwards; disk ovate, purple.

658. CENTAUREA. *Gen. pl.* 1331.

Cyanus.

1. C. squamis calycinis serratis, foliis linearibus integerrimis, inferioribus dentatis. *Smith fl. brit.* 2. p. 911.
Willd. sp. pl. 3. p. 2291.

Icon. *Engl. bot.* 277. *Fl. dan.* 993.

In rye and wheat fields; rare. Brought from Europe with the grain. ☉. July, Aug. v. v. Flowers blue.

solstitialis.

2. C. calycibus palmato-spinosis solitariis, spinis rectis, foliis canescentibus lineari-lanceolatis decurrentibus integerrimis, radicalibus lyratis. *Willd. sp. pl.* 3. p. 2300.

Icon. *Engl. bot.* 243.

In sandy fields and woods: New Jersey: introduced from Europe. ☉. July, Aug. v. v. Flowers yellow.

IV. NECESSARIA.

659. CHAPTALIA. *Vent. hort. cels* 61.

1. *C. foliis ovato-oblongis integerrimis subtus argenteo tomentosis, scapo nudo unifloro, flore nutante.*—*Vent. l. c. cum icone.* *tomentosa.*

Tussilago integrifolia. *Mich. fl. amer.* 2. p. 121.

Perdicion semiflosculare. *Walt. fl. car.* 204.

In sandy fields and woods, in moist soil: Carolina to Florida. $\mathcal{U}$. May, June. *v. v.* Flowers white, with a tinge of pale purple.

660. SILPHIUM. *Gen. pl.* 1334.

1. *S. caule superne hispido, foliis radicalibus caulisque pinnatifidis, laciniis dentato-sinuatis, calycinis foliolis subcordatis acuminatis.*—*Willd. sp. pl.* 3. p. 2330. *laciniatum.*

Icon. *Linn. fl. fasc.* 1. t. 3.

On the banks of rivers in the western territories, particularly on the Mississippi. $\mathcal{U}$. Aug.—Oct. *v. v.* From eight to twelve feet high; flowers large, and, as all the rest of the genus, yellow.

2. *S. caule lævi, foliis caulinis sinuato-pinnatifidis, radicalibus ternatis sinuato-multifidis, floribus parvis paniculatis.*—*Willd. sp. pl.* 3. p. 2331. *compositum.*

S. laciniatum. *Walt. fl. car.* 217.

S. sinuatum. *Herb. Banks. mss.*

In gravelly woods, near the sea-coast: Virginia and Carolina. $\mathcal{U}$. Aug.—Oct. *v. v.* Not above two feet high; flowers small.

3. *S. caule lævi, foliis radicalibus amplis cordatis, caulinis alternis ovatis serratis scabris.*—*Willd. sp. pl.* 3. p. 2331. *terebinthina-ceum.*

Icon. *Jacq. hort.* 1. t. 43.

In the western mountains and Louisiana. $\mathcal{U}$. Aug.—Oct. *v. v.* About five feet high; radical leaves very large.

4. *S. caule tetragono lævi, foliis oppositis connatis ovatis serratis.*—*Willd. sp. pl.* 3. p. 2331. *perfoliatum.*

- β . *S. squamis calycinis quatuor exterioribus calyce interiore longiore.* *Willd. enum.* 933. *conjunctum.*

In the Allegany mountains: Pennsylvania to Carolina.

2. July—Oct. *v. v.* A tall robust plant. Var. 5. though considered by Willdenow as a distinct species, appears to be little more than a variety.
- connatum.* 5. *S. caule tereti hispido, foliis oppositis connatis remote serratis scabris.*—*Willd. sp. pl. 3. p. 2332.*
 In high mountains of Virginia and Carolina. 2. Aug. Sept. *v. v.* Resembles the preceding, but is a very distinct species.
- Asteriscus.* 6. *S. caule tereti hispido, foliis oppositis alternisve oblongis acutis serratis scabris, calycibus ciliatis.*—*Willd. sp. pl. 3. p. 2332.*
Icon. Dill. elth. t. 37. f. 42.
 In mountain meadows: Virginia and Carolina. 2. July—Sept. *v. v.*
- pumilum.* 7. *S. caule tenuiter tomentoso, foliis ovalibus leviter serratis obtusis subtomentosis, calycinis foliolis obovatis obtusis, seminibus muticis.*—*Willd. sp. pl. 3. p. 2332.*
S. patulum. Herb. Banks.
 In Florida. *Michaux. Bartram. 2. v. s. in Herb. Banks.*
- integrifolium.* 8. *S. caule tetragono aspero, foliis oppositis sessilibus oblongis integerrimis scabris, floribus paucis breviter pedunculatis.*—*Willd. sp. pl. 3. p. 2333.*
 On the most western of the Alleghany mountains and Illinois. 2. Aug.—Oct. *v. v.* About four feet high.
- laevigatum.* 9. *S. caule simplici tetragono sulcato glabro, foliis oppositis sessilibus ovatis acuminatis tenuissime serratis basi subcordatis utrinque glabris, calycinis squamis ovatis ciliatis.*
 In Georgia. *Engelm. 2. v. s. in Herb. Engelm.* About two feet high; flowers in a close corymb.
- trifoliatum.* 10. *S. caule sexangulo laevi, foliis terno-verticillatis ovato-lanceolatis inæqualiter dentato-serratis scabris, superioribus sessilibus, panicula trichotoma.*—*Willd. sp. pl. 3. p. 2333.*
S. ternifolium. Michx. fl. amer. 2. p. 146.
Icon. Moris. hist. 3. s. 6. t. 3. f. 68.
 On the high mountains of Virginia and Carolina. 2. Sept. Oct. *v. v.* About six feet high.
- ternatum.* 11. *S. caule tereti laevi, foliis terno-verticillatis petiolatis lanceolatis subdenticulatis scabriusculis basi ciliatis, superioribus sparsis sessilibus, panicula dichotoma, calycibus ciliatis.*—*Willd. sp. pl. 3. p. 2333.*

In North America. *Retz.* 24. v. s. in *Herb. Lambert.*

12. *S. canle tereti lævi, foliis subquaterno-verticillatis lanceolatis scabris subintegerrimis subsessilibus basi ciliatis, superioribus sparsis, panicula dichotoma.*—*Willd. sp. pl.* 3. p. 2334. *atropurpureum.*

In Carolina and Georgia. *Lyon.* 24. Aug. Sept. v. v. Resembles the preceding; but its purple smooth stem distinguishes it at first sight.

13. *S. canle petiolisque tomentosis, ramis unifloris, foliis alternis cordatis ovatis serratis petiolatis villosis, seminibus muticis.*—*Herb. Banks. mss.* *tomentosum.*

In Georgia. *Bartram.* 24. v. s. in *Herb. Banks.*

14. *S. foliis alternis petiolatis cordatis sinuatis, squamis calycinis obtusis.* *Herb. Banks. mss.* *elatum.*

In Carolina. 24. v. s. in *Herb. Banks.*

15. *S. foliis alternis ovato-lanceolatis cordatis serratis obtusiusculis villosiusculis.* *Herb. Banks. mss.* *reticulatum.*

In Florida. 24. v. s. in *Herb. Banks.*

661. POLYMNIA. *Gen. pl.* 1335.

1. *P. viscido-villosa; foliis denticulatis acuminatis, inferioribus pinnatifidis, superioribus trilobis integrisque.*—*Willd. sp. pl.* 3. p. 2335. *canadensis.*

Icon. *Amœn. acad.* 3. t. 1. f. 5.

In shady mountains: Canada to Virginia. 24. June, July. v. v. Two or three feet high; flowers yellow; the whole plant has a strong balsamic scent.

2. *P. foliis oppositis trilobis acutis in petiolum decurrentibus, lobis anguloso-sinuatis, radiis elongatis.*—*Willd. sp. pl.* 3. p. 2335. *Uvedalæ.*

P. maculata. *Cav. ic.* 3. t. 227.

Icon. *Pluk. alm.* t. 83. f. 3. *Meris. hist.* 3. s. 6. t. 7. f. 55. *Trew pict. suppl.* 112.

In the mountains of Virginia and Carolina. 24. July--Sept. v. v. From four to eight feet high.

662. CHRYSOGONUM. *Gen. pl.* 1337.

1. *C. pumilum, lanato-villosum; foliis in petiolum angustatis ovalibus dentatis.*—*Willd. sp. pl.* 3. p. 2337. *virginianum.*

Icon. *Pluk. alm.* t. 83. f. 4. & t. 242. f. 3.

On dry hills: Virginia and Carolina. 24. May, June. v. v. Not above a span high; flowers yellow.

663. BALTIMORA. *Gen. pl.* 1333.*recta.*

1. *B. scabra*; caule dichotomo, foliis oppositis ovatis acuminatis serratis petiolatis.—*Willd. sp. pl.* 3. p. 2329.

Icon. *Pluk. mant.* t. 342. f. 3.

In Maryland near Baltimore. *Sp. pl.* ☉. July. *v. v. cult.* Flowers small, yellow. I have never seen this plant in any part of the United States, and suppose it to be only an inhabitant of Vera Cruz.

664. PARTHENIUM. *Gen. pl.* 1428.*integrifolium.*

1. *P. foliis oblongis inæqualiter dentatis asperis, superioribus amplexicaulibus*.—*Willd. sp. pl.* 3. p. 2385.

Icon. *Willd. hort. berol.* t. 4. *Dill. elth.* t. 225. f. 292.

Pluk. alm. t. 53. f. 5. ♂ t. 219. f. 1. *Lam. illustr.* t. 766.

In dry places on the mountains of Virginia and Carolina. ♀. Sept. Oct. *v. v.* About a foot high; flowers white.

665. IVA. *Gen. pl.* 1429.*ciliata.*

1. *I. caule herbaceo, foliis lanceolato-ovatis subserratis, spica confertiuscula, bracteis lanceolatis acuminatis petiolisque longe ciliatis*.—*Willd. sp. pl.* 3. p. 2386.

In natural meadows: Kentucky and Illinois. ☉. July, Aug. *v. s.* About two feet high.

imbricata.

2. *I. fruticosa, glabra; foliis lineari-lanceolatis cuneatis integerrimis glabris, calycibus imbricatis*.—*Willd. sp. pl.* 3. p. 2387. *Walt. fl. car.* 232.

I. integrifolia. Herb. Banks. mss.

On the sea-coast of Carolina and Georgia. ♀. *v. s. in Herb. Walter.*

frutescens.

3. *I. fruticosa; foliis lanceolatis punctato-scabris profunde serratis, glomerulis florum depresso-globosis*.—*Willd. sp. pl.* 3. p. 2387.

Icon. *Lam. encycl.* 766. *Pluk. alm.* t. 27. f. 1.

On the sea-coast: New England to Florida. ♀. Aug. Sept. *v. v.* A shrub about four feet high.

666. AMBROSIA. *Gen. pl.* 1427.*integrifolia.*

1. *A. foliis ovatis sessilibus acuminatis serratis utrinque hispidis basi ciliatis, racemis terminalibus plerumque ternis*.—*Willd. sp. pl.* 4. p. 375.

On the banks of ponds and ditches: Pennsylvania and Virginia. ☉. July—Sept. *v. v.* The flowers of this genus are very inconspicuous.

2. *A. hirsutissima*; foliis arcte sessilibus simplicibus oblongis supra basin latescentem utrinque unidentatis, fructu tetragono infra apicem quadrispinoso. *Mich. fl. amer.* 2. p. 182.

bidentata.

In the western parts of the Allegany mountains ☉. July—Sept. *v. v.*

3. *A. hirsuta, aspera*; foliis 3-lobis serratis, lobis ovali-lanceolatis acuminatis, fructu infra apicem 6-spinoso.—*Willd. sp. pl.* 4. p. 375.

trifida.

Icon. *Moris. hist.* 3. s. 6. t. 1. f. 4.

On the banks of rivers and ditches: Pennsylvania to Carolina. ☉. Aug. Sept. *v. v.* From five to eight feet high.

4. *A. foliis bipinnatifidis glabriusculis, petiolis longe ciliatis, racemis terminalibus paniculatis, caule virgato.* *Willd. sp. pl.* 4. p. 376.

elatior.

In old fields: Canada to Carolina. ☉. June—Aug. *v. v.*

5. *A. foliis bipinnatifidis subtus canescentibus summis pinnatifidis, racemis tertis terminalibus, ramis fastigiatis.* *Willd. sp. pl.* 4. p. 376.

artemisiifolia.

In fields and waste grounds: Pennsylvania to Carolina. ☉. Aug. Sept. *v. v.*

6. *A. foliis glabris bipinnatifidis summis pinnatifidis, racemis terminalibus solitariis, ramis fastigiatis.* *Willd. sp. pl.* 4. p. 376.

paniculata.

Icon. *Pluk. alm.* t. 10. f. 5.

In old fields and on road sides: Canada to Florida. ☉. July—Sept. *v. v.*

7. *A. foliis caulinis pinnatifidis subdentatis petiolatis, racemis summis lanceolatis sessilibus, petiolis longe ciliatis, racemis terminalibus solitariis, caule paniculato.* *Willd. sp. pl.* 4. p. 378.

heterophylla.

On the banks of rivers and ditches: near Philadelphia. ☉. July—Sept. *v. v.*

667. XANTHIUM. *Gen. pl.* 1426.

1. *X. caule inermi ramoso, foliis cordatis lobatis serratis scabris basi trinerviis, fructibus ellipticis pubescentibus setis rigidis uncinatis.*—*Willd. sp. pl.* 4. p. 373.

Strumarium.

Icon. *Fl. dan.* 970.

On road sides, among rubbish and cultivated grounds :
New England to Pennsylvania. ☉. Aug. Sept. *v. v.*
The fruit resembles the common *Burdock*.

V. SEGREGATA.

668. ELEPHANTOPUS. *Gen. pl.* 1347.

- carolinianus.* 1. *E. foliis radicalibus caulinisque oblongis basi angustatis utrinque pilosis, caule simplici erecto piloso.*—*Willd. sp. pl.* 3. *p.* 2390.
E. scaber. Mich. fl. amer. 2. *p.* 148.
Icon. Dill. elth. t. 106. *f.* 126. *Sloan. hist.* 1. *t.* 156. *f.* 1.
In shady woods : Virginia to Florida. ♀. Aug.—Oct. *v. v.* Flowers red.
- tomentosus.* 2. *E. foliis radicalibus caulinisque ovatis basi attenuatis utrinque tomentosis, caule simplici tomentoso.*—*Willd. sp. pl.* 3. *p.* 2390.
On dry sunny hills : Lower Virginia and Carolina. ♀. Aug.—Oct. *v. v.* Flowers deep red.

XVIII. GYNANDRIA.

I. MONANDRIA.

* *Calyculatae* ; *filamentum basi styli insertum.*

669. THALIA. *Cal.* minimus, triphyllus. *Cor.* 5-petala: duo interiora minora. *Anthera* simplex, ovata, filamentum proprio depresso innixa. *Stylus* simplex, ab anthera deflexus. *Stigma* perforatum ringens. *Bacca* 1-sperma.

670. CANNA. *Cal.* 3-phyllus. *Cor.* 6-partita, erecta. *Nectar.* bipartitum revolutum. *Styl.* lanceolatus, corollæ adnatus. *Caps.* muricata, 3-locularis, polysperma.

** *Ecalyculatae* ; *filamentum nullum* ; *anthera apice styli inserta, biloba.*

671. ORCHIS. *Cor.* ringens : petalo superiore fornicato. *Labellum* dilatatum, basi subtus calcaratum aut saccatum. *Anthera* terminalis, adnata.

672. NEOTTIA. *Cor.* ringens : petalis lateralibus exterioribus antice circa basin labelli ventricosum connexis. *Anthera* stylo parallela, postice inserta.

673. ARETHUSA. *Cor.* subringens : petalis subconniventibus. *Labellum* ealcaratum. *Anthera* opercularis, persistens. *Pollen* pulvereo-granulatum.

674. EPIPACTIS. *Cor.* erecto-patens. *Labellum* ealcaratum, planum, pendulum, apice bifidum. *Anthera* opercularis, persistens.

675. MALAXIS. *Cor.* patens, resupinata. *Labellum* concavo-patulum, adscendens. *Anthera* opercularis.

676. CYMBIDIUM. *Cor.* erecta vel patens. *Labellum* basi concavum, ealcaratum, lamina patula. *Anthera* opercularis, decidua. *Pollen* globosum.

677. CALYPSO. *Cor.* 6-petala: 5. sursum expansa. *Labellum* sacciforme, dorso basis 2-calcaratum. *Stylus* late alatus. *Stigma* operculo 2-lobo absconditum. *Pollen* lamellis 4. solidis.

II. DIANDRIA.

678. CYPRIPIEDUM. *Cor.* 4-petala, patens. *Labellum* ventricoso-inflatum, obliquum. *Stylus* superne lobo petaloideo appendiculatus.

III. HEXANDRIA.

679. ARISTOLOCHIA. *Cor.* 1-petala, tubuloso-ligulata, basi ventricosa. *Styl.* O. *Caps.* infera, 6-locularis.

IV. DODECANDRIA.

680. ASARUM. *Cor.* tubuloso-campanulata, 3-4-fida. *Antheræ* mediis filamentis adnatæ. *Caps.* infera, coronata, 6-locularis.

I. MONANDRIA.

669. THALIA. *Gen. pl.* 10.

dealtata.

1. *T. panicula* albido-pulverulenta, spathis bifloris, foliis ovatis apice revolutis.—*Roscoe in linn. trans.* 8. p. 340. *Icon. In a single plate of J. Fraser.*
In impenetrable swamps of South Carolina. *W.* Aug. Sept. *v. v. s. fl.*; *v. s. c. fl. in Herb. Lambert.* A tall and handsome plant; flowers small, purple. J. Millington, Esq. of South Carolina, is, to my knowledge, the first discoverer of this elegant plant. It was introduced into the English gardens by the Messrs. Frasers.

670. CANNA. *Gen. pl.* 1.

1. *C. foliis petiolatis lanceolatis costatis, corollæ limbo interiore trifido : laciniis strictis emarginatis.*—*Willd. sp. pl.* 1. p. 3 ? *angustifolia.*

C. glauca. Walt. fl. car. 59.

In deep and almost impregnable swamps of Georgia. *Enslen. 4. July, Aug. v. s. in Herb. Enslen.* Flowers scarlet. It approaches near to *C. indica*, and probably may be a new species, if not the true *C. angustifolia*.

2. *C. foliis sessilibus lanceolatis glaucis, corollæ limbo interiore trifido : laciniis flaccidis.*—*Roscoe in linn. trans.* 8. p. 339. *flaccida.*

C. glauca β. flaccida. Willd. sp. pl. 1. p. 4.

C. angustifolia. Walt. fl. car. 59.

Icon. Salisb. stirp. rar. 3. t. 2. *Thomps. bot. t.* 1. *Redouté liliac.* 107.

In swamps of South Carolina. *4. Aug. Sept. v. v.* Flowers large, yellow.

671. ORCHIS. *Swartz act. holm.* 1800, p. 205.

* *Radicibus testiculatis.*

1. *O. labello oblongo-lanceolato pinnatim ciliato petalis duplo longiore, cornu germine longiore.* *Willd. sp. pl.* 4. p. 8. *ciliaris.*

Icon. Bot. rep. 42.

In old meadows and exsiccated swamps : Canada to Carolina. *4. June, July. v. v.* Flowers a bright golden-yellow, very handsome.

2. *O. labello lanceolato ciliato longitudine petali supremi, cornu germine longiore.* *Willd. sp. pl.* 4. p. 9. *Elephariglotis.*

Orchis testiculata floribus niveis, &c. Clayt. no. 560.

In low swampy bottoms : New Jersey to Carolina. *4. June, July. v. v.* Flowers clear white; resembles the preceding very much.

3. *O. labello 3-partito, laciniis capillaceo-multifidis, petalis obtusis, cornu filiformi-clavato adscendente germinis longitudine.* *Willd. sp. pl.* 4. p. 39. *psycodes.*

In old fields, on the side of swamps : Canada to Virginia. *4. June—Aug. v. s.* Flowers yellow.

4. *O. labello oblongo pinnatim-ciliato, petalis rotundatis, binis lateralibus dentatis, cornu germine brevior.* *Willd. sp. pl.* 4. p. 9. *Mich. fl. amer.* 2. p. 156. *cristata.*

In exsiccated swamps and mountain meadows: Pennsylvania to Carolina. $\mathcal{U}$. June, July. v v . In colour and shape resembling No 1; but the flowers are smaller and closer, in a short spike.

lacera.

5. O. labello 3-partito, laciniis subdigitato-filiformibus, cornu germen subæquante, floribus alternis.—*Mich. fl. amer.* 2. p. 156.

O. radice palmata, foliis lili, &c. *Clayt. n.* 644.

In low meadows: Pennsylvania to Virginia $\mathcal{U}$. July. v v . Flowers greenish-white. Roots not known.

clavellata.

6. O. labello ovato integerrimo. petalis conniventibus, cornu clavato longitudine germinis, caule unifoliato. *Willd. sp. pl.* 4. p. 10. *Mich. fl. amer.* 2. p. 155.

In Carolina. *Michaux.* $\mathcal{U}$. +. A loose spike, with few flowers; bractes very short.

quinqusetta.

7. O. labello 5-partito: laciniis setaceis, cornu germine duplo longiore.—*Mich. fl. amer.* 2. p. 155.

In sandy low fields, on the side of swamps: Virginia and Carolina. $\mathcal{U}$. June, July. v v . A loose spike, with alternate and distant flowers; bractes acuminate; leaves ovate, acute.

discolor.

8. O. labello petalis longiore tripartito: laciniis lateralibus brevibus acutis, intermedia producta spathulata, cornu filiformi germine subduplo-longiore, folio unico radicali ovato-cordato.

Orchis floribus sparsis, nectario pedunculum superante, &c. *Gron. virg.* 137.

In pine-barrens: New Jersey to South Carolina. $\mathcal{U}$. July. v v .

Bulbis testiculatis, ovatis, acutis. *Folium* unicum, ovatum, petiolatum, plicato-nervosum, glabrum, subtus purpurascens. *Petiolus* margine plicato-undulatus. *Scapus* pedalis, nudus, vagina una alterave instructus, teres, glaber. *Flores* laxè spicati, brevissime pedicellati, nutantes, tristi- seu exviridi-purpurascens. *Petala* oblonga, acutiuscula, flexuosa. *Labelllum* petalis longius, margine subundatum. *Cornu* adscendens, filiforme, flexuosum, purpureum.

** *Radicibus palmatis.*

flava.

9. O. labello trifido integerrimo: lacinia media majore, cornu filiformi longitudine germinis, spica elongata congesta, bracteis flore longioribus.—*Willd. sp. pl.* 4. p. 33.

- In Virginia. $\mathcal{U}$. July. *v. s. in Herb. Gronov.* Flowers yellow.
10. O. labello lineari apice tridentato, petalis conniventibus, cornu obtuso scrotiformi, bracteis flore sesquialongioribus. *Willd. sp. pl. 4 p. 33.* *viridis.*
Satyrium viride. Sp. pl. 1357.
Icon. Fl. dan. 77. Hall. helv. t. 26.
 In dry grassy places, on the high mountains of Virginia and Carolina. $\mathcal{U}$. June, July. *v. v.* Not above three inches high; flower small, greenish-white.
11. O. labello lanceolato apice tridentato, petalis obtusis, cornu filiformi apice clavato-adscendente germine longiore. *Willd. sp. pl. 4. p. 41.* *tridentata.*
 On the high mountains of Pennsylvania and Virginia. $\mathcal{U}$. June, July. *v. v.* Spike consisting of but a few small white flowers.
12. O. labello lineari apice emarginato obsolete 3-dentato, petalis subconniventibus, lateralibus ovatis latioribus, cornu obtuso scrotiforme, bracteis flore duplo longioribus patentibus. *Willd. sp. pl. 4. p. 34.* *bracteata.*
Icon. Parad. lond. 110.
 O. foliis duobus inferioribus ovatis, superioribus, &c. *Gron. virg. 136.*
 In low shady places: Pennsylvania to Virginia. $\mathcal{U}$. July, Aug. *v. v.* About a span high; flowers green.
13. O. labello oblongo lanceolato indiviso, petalis erectis, cornu obtuso scrotiformi, germinibus pedicellatis, scapo nudo. *Willd. sp. pl. 4 p. 34.* *obsoleta.*
Serapias foliis ovatis radicalibus, scapo nudo multifloro. Gron. virg. 137.
 In low shady places: New England to Virginia: rare. $\mathcal{U}$. July, Aug. *v. v.* The bractes are very short.
- *** *Radix fasciculatis.*
14. O. labello ovato basi dentato, petalis patentibus, cornu subulato germinis longitudine. *Willd. sp. pl. 4. p. 35.* *fuscescens.*
Icon. Gmel. fl. sib. 1. p. 20 t. 4. f. 2.
 On grassy hills: Pennsylvania. $\mathcal{U}$. July. *v. v.* Flowers in long spikes, dark or brownish yellow; bractes very long, acuminate, and longer than the flowers.
15. O. labello obovato indiviso crenato retuso, petalis rectis, lateralibus longioribus, cornu clavato germine brevior, bracteis flore longioribus, caule aphylo. *Willd. sp. pl. 4. p. 36.* *spectabilis.*

O. humilis. Mich. fl. amer. 2. p. 155.

In shady, rocky situations: New York to Carolina; particularly on the mountains. $\mathcal{U}$. May, June. *v. v.* About a span high; flowers large, purple and white, very handsome.

orbiculata. 16. *O. labello lineari integerrimo obtusiusculo, petalis 3. superioribus conniventibus, 2. lateralibus patentibus basi obliquis, cornu germine longiore, scapo basi diphylo, foliis planis orbiculatis.*

In shady beech-woods: on the mountains of Pennsylvania and Virginia. $\mathcal{U}$. July, Aug. *v. v.* Resembles *O. bifolia*. Two leaves of a fleshy texture are spread flat on the ground, between which rises the stalk about a foot or eighteen inches high, which bears a loose spike of greenish-white flowers. It is known in the mountains by the name of *Heal-all*.

dilatata. 17. *O. labello lineari integerrimo obtusiusculo, basi subrotundato-dilatato, cornu longitudine labelli: germine brevior, bracteis longitudine florum, caule folioso.*

O. acuta. Herb. Banks. mss.

In Labrador. *Colmaster. \mathcal{U}. v. s. in Herb. Dickson.*

virescens. 18. *O. labello lanceolato crenato, petalis conniventibus, cornu obtuso scrotiformi, bracteis flore longioribus. Willd. sp. pl. 4. p. 37.*

In boggy meadows: Pennsylvania. $\mathcal{U}$. July. *v. s.* From a foot to eighteen inches high; flowers green.

hyperborea. 19. *O. labello lanceolato magnitudine petalorum patentium, cornu subulato germine brevior, spica ovata, bracteis longitudine florum.—Willd. sp. pl. 4. p. 37.*

Icon. *Retz obs. bot. 4 t. 3.*

In Hudson's Bay, near Albany. *Hutchinson. \mathcal{U}. June, July. v. s. in Herb. Banks.* Flowers greenish-yellow.

obtusata. 20. *O. labello lineari integerrimo cornu longiore, cornu longitudine germinis, folio unico radicali subcuneiformi-obtuso.—Herb. Banks. mss.*

On Hudson's Bay, near Fort Albany. *Hutchinson. \mathcal{U}. v. s. in Herb. Banks.* A small species, with a few flowers only.

rotundifolia. 21. *O. labello 3-fido; intermedio bifido, cornu germine brevior, foliis ovali-subrotundis.—Herb. Banks. mss.*

On Hudson's Bay. $\mathcal{U}$. *v. s. in Herb. Banks.*

fimbriata. 22. *O. labello tripartito, laciniis cuneiformibus ciliato-fimbriatis, petalis lateralibus ovatis dentatis, cornu fili-*

formi clavato germine longiore. *Willd. sp. pl. 4. p. 39.*

In low meadows and on high mountain bogs : Canada to Pennsylvania. *℥. July. v. v.* From a foot to two high ; flowers purple, very handsome.

23. *O. labello tripartito, laciniis cuneiformibus inciso-dentatis, intermedia emarginata, petalis lateralibus obtusis subdentatis, cornu subulato adscendente germinis longitudine.* *Willd. sp. pl. 4. p. 40.*

incisa.

In low meadows : New York to Virginia. *℥. July. v. v.* Resembles the preceding ; flowers smaller and paler in colour. In the mountain-meadows it grows, like the following, to a very great height, sometimes exceeding three and four feet.

24. *O. labello tripartito, laciniis cuneiformibus dentatis, intermedio bilobo, cornu filiformi apice clavato adscendente germine longiore.* *Willd. sp. pl. 4. p. 40.*

fissa.

In mountain meadows : Pennsylvania to Virginia. *℥. July, Aug. v. v.* Resembles the preceding ; flowers dark purple.

672. *NEOTTIA. Swartz. act. holm. 1800. p. 224.*

1. *N. foliis radicalibus linearibus, scapo vaginato, floribus spiraliter-secundis, labio trifido ; medio majori crenulato.—Willd. sp. pl. 4. p. 74.*

tortilis.

Satyrium spirale. Swartz. prodr. 118.

Ophrys æstivalis. Mich. fl. amer. 2. p. 157.

Limodorum præcox. Walt. fl. car. 221.

In low spongy meadows : Pennsylvania to Carolina. *℥. June, July. v. v.* From ten inches to a foot high ; flowers white. This and the following species are known by the name of *Ladies Traces.*

2. *N. foliis lanceolatis trinervibus, caule vaginato, spica oblonga densiflora, floribus recurvato-cernuis, labello oblongo integerrimo acuto.—Willd. sp. pl. 4. p. 75.*

cernua.

Ophrys cernua. Sp. pl. 1340.

Limodorum autumnale. Walt. fl. car. 221.

In grassy and springy places : Canada to Carolina. *℥. July, Aug. v. v.* Resembles the preceding, but the spikes are closer and the flowers double the size.

3. *N. foliis radicalibus ovatis petiolatis reticulatis, scapo vaginato floribusque pubescentibus, floribus secundis, labello petalisque lanceolatis.* *Willd. sp. pl. 4. p. 76.*
Satyrium repens. Sp. pl. 1339.

repens

Icon. *Jacq. austr.* 369. *Hall. helv. t.* 22. *Com. hort. t.* 35.

In rocky, shady pine-woods, on the high mountains of Virginia. $\mathcal{U}$. July. *v. v.* Not above three inches high ; stem creeping ; leaves delicately veined ; flowers white.

pubescens.

4. *N. foliis radicalibus ovatis petiolatis reticulatis, scapo vaginato floribusque pubescentibus, labello ovato acuminato, petalis ovatis.* *Willd. sp. pl.* 4. *p.* 76.

Satyrion repens. *Mich. fl. amer.* 2. *p.* 137.

In shady and rocky situations : Canada to Florida. $\mathcal{U}$. July. *v. v.* Resembles the preceding ; is more robust, and the leaves more distinctly and handsomely variegated with white veins. This plant has lately made a great noise among the country people, as infallibly curing the bite of a mad dog.

673. ARETHUSA. *Swartz. act. holm.* 1800. *p.* 230.

bulbosa.

1. *A. aphylla ; radice globosa, scapo vaginato unifloro, calyce laciniis superioribus incurvatis, labello subcrenulato.*—*Willd. sp. pl.* 4. *p.* 80.

Icon. *Lam. illustr. t.* 729. *f.* 1. *Pluk. mant. t.* 348. *f.* 7.

In sphagnous swamps : Canada to Carolina. $\mathcal{U}$. June. *v. v.* Flowers large, purple, sweet-scented.

ophioglossoides.

2. *A. radice fibrosa, scapo dissite bifoliato 1—2-floro, foliis ovali-lanceolatis, labello fimbriato.*—*Willd. sp. pl.* 4. *p.* 80.

Icon. *Lam. illustr. t.* 729. *f.* 2.

In bogs and sphagnous swamps : Canada to Carolina. $\mathcal{U}$. June, July. *v. v.* Flowers nearly the size of the preceding, purple, sometimes white.

divaricata.

3. *A. radice subpalmata, scapo remote bifoliato unifloro, foliis oblongis obtusiusculis, petalis exterioribus adscendentibus longo-linearibus, labello eroso-subcrenulato.*—*Willd. sp. pl.* 4. *p.* 81.

Icon. *Lam. illustr. t.* 729. *f.* 3. *Catesb. car.* 1. *t.* 58.

In swamps near the sea-coast : Virginia to Florida. $\mathcal{U}$. July. *v. v.* Flowers larger than any of the preceding, purple.

pendula.

4. *A. radice tuberosa, caule folioso summitate subtrifloro, foliis ovatis alternis, floribus longo-pedunculatis alternis, labello integro.*—*Willd. sp. pl.* 4. *p.* 82.

A. trianthophoros. *Swartz. act. holm.* 1800. *p.* 230.

A. parviflora. Mich. fl. amer. 2. p. 160.

Icon. Pluk. mant. t. 348. f. 6.

In shady woods, round the roots of beech-trees : New York to Kentucky. $\mathcal{U}$. July. *v. v.* Not above three or four inches high ; flowers pale purple, small.

5. *A. foliis quinis oblongo-lanceolatis verticillatis, caule unifloro, petalis tribus exterioribus longissimis linearibus, interioribus lanceolatis, labello trilobo, lacinia media undulata. Willd. sp. pl. 4. p. 81.* *verticillata.*

Icon. Pluk. mant. t. 348. f. 1. bona.

In shady woods, near the banks of rivulets : Pennsylvania to Virginia. $\mathcal{U}$. July. *v. v.* A very scarce and handsome species ; flowers, the size and shape of *A. divaricata*, of a dull purple mixed with yellow. It has sometimes two or three flowers.

6. *A. foliis verticillatis oblongis acuminatis, caule unifloro, flore subsessili, petalis tribus exterioribus linearibus, interioribus brevioribus oblongis obtusis, labello petalis consimile. medeoloides.*

In shady woods on the Blue-mountains. *Fanvleck. \mathcal{U}. July. *v. s. in Herb. Fanvleck.* Resembles the preceding in general habit.*

674. EPIPACTIS. *Swartz. act. holm. 1800. p. 231.*

1. *E. foliis radicalibus ovatis acutis, scapo aphylo pubescente laxifloro, floribus pedicellatis, labello bilobo vix petalis conniventibus longiore, capsulis clavatis, radice palmato. pubescens.*

Ophrys pubera. Mich. fl. amer. 2. p. 158.

Arethusa racemosa. Walt. fl. car. 222.

Serapias foliis ovatis radicalibus, scapo nudo multifloro. Gron. fl. virg. 137.

In pine-barrens of Carolina and Georgia. $\mathcal{U}$. June. *v. s. in Herb. Gronov. et Walter.* Flowers small, greenish-white.

2. *E. caule bifolio, foliis oppositis cordato-subrotundis acutis, spica parviflora, labello oblongo apice dilatato obtuse bilobo, germine subgloboso, radice fibrosa.— convallarioides.*

Willd. sp. pl. 4. p. 88.

Ophrys cordata. Mich. fl. amer. 2. p. 158.

In shady cedar-swamps and sphagnous woods : Canada to New Jersey ; rare. $\mathcal{U}$. May. *v. v.* A very small plant ; flowers dark-brown, mixed with green.

675. MALAXIS. *Swartz. act. holm.* 1800. p. 233.*ophioglossoides.*

1. M. folio solitario ovato amplexicauli, scapo pentagono, labello apice bifido. *Willd. sp. pl.* 4. p. 90.

M. unifolia. *Mich. fl. amer.* 2. p. 157.

In shady woods: Pennsylvania to Florida. 4. May, June. v. v.

lilifolia.

2. M. foliis binis ovato-lanceolatis, scapo triquetro, petalis interioribus filiformibus reflexis discoloribus, labello concavo obovato apice acuto.—*Willd. sp. pl.* 4. p. 92.

Ophrys trifolia. *Walt. fl. car.* 221.

Ophrys scapo nudo, foliis radicalibus, &c. *Gron. virg.* p. 138.

Epidendrum caule erecto simplicissimo nudo, racemo simplici erecto. *Gron. virg.* p. 140.

Icon. *Bot. rep.* 65.

In shady wet woods, round the roots of trees: Canada to Virginia. 4. June, July. v. v. The three outside petals are sharp-pointed, white; the two inside ones thread-shaped, yellowish, and reflex; the lower lip broad-obovate with an abrupt point of a pale olive colour.

676. CYMBIDIUM. *Swartz. nov. act. ups.* 6. p. 70.*pulchellum.*

1. C. foliis radicalibus ensiformibus nervosis, scapo paucifloro, labello erecto basi attenuato, lamina expansa, disco concavo barbato.—*Willd. sp. pl.* 4. p. 105.

Limodorum tuberosum. *Syst. veg.* 680. *Mich. fl. amer.* 2. p. 159.

Limodorum pulchellum. *Salisb. prodr.* 8.

Ophrys barbata. *Walt. fl. car.* 221.

Icon. *Bot. mag.* 116.

In sphagnous swamps: Canada to Florida. 4. July. v. v. Flowers purple, very handsome.

verecundum.

2. C. foliis radicalibus lato-lanceolatis plicato-nervosis, scapo multifloro, petalis interioribus conniventibus, labello ventricosso, lamina emarginata crispa sulcata. *Willd. sp. pl.* 4. p. 105.

Limodorum verecundum. *Salisb. prodr.* 9.

Limodorum tuberosum. *Jacq. collect.* 4. p. 108.

Limodorum altum. *Jacq. ic. rar.* 3. t. 602.

Limodorum trifidum. *Mich. fl. amer.* 2. p. 159.

Icon. *Mart. cent. t.* 50. *Mill. ic.* 145.

In Carolina and Florida. $\mathcal{U}$. July, Aug. *v. v.* Resembles the preceding, but is larger.

3. *C. foliis radicalibus geminis ovatis multinerviis, scapo simplici vaginato erecto, petalis erectis, tribus exterioribus lanceolatis, interioribus oblongis, labello ovato margine undulato-crenato.*—*Willd. sp. pl.* 4. p. 107.

Arethusa spicata. *Walt. fl. car.* 222.

On the side of fertile hills, under the shade of trees : Pennsylvania to Carolina. $\mathcal{U}$. May. *v. v.* Flowers greenish-purple. It is known among the inhabitants by the name of *Adam and Eve*. The roots bruised, with a small addition of water, give a strong cement, which when applied to broken china and glass is exceedingly durable.

4. *C. scapo vaginato aphylo, floribus pedicellatis, petalis lanceolatis æqualibus, labello ovato obtuso.* *Willd. sp. pl.* 4. p. 110.

Ophrys corallorhiza. *Mich. fl. amer.* 2. p. 158.

Icon. *Pluk. alm. t.* 211. f. 1 & 2.

In shady woods, about the roots of trees : Canada to Virginia. Flowers small, dark purple mixed with yellow.

hyemale.

Odontorhizon.

677. CALYPSO. *Salisb. in parad. lond. t.* 89.

1. *C. folio radicali unico subrotundo-ovato nervoso, scapo unifloro vaginato.*—*Salisb. l. c.*

Limodorum boreale. *Willd. sp. pl.* 123.

Cypripedium bulbosum. *Sp. pl.* 1347.

Cymbidium boreale. *Swartz. nov. act. ups.* 6. p. 76.

Icon. *Parad. lond.* 89. *Smith spicil. t.* 11. *Gmel. fl. sib.* 1. t. 2. f. 5.

In Nova Scotia. *Menzies.* On the Columbia river. *M. Lewis.* $\mathcal{U}$. May, June. *v. s. in Herb. Lewis.* Flower large, purplish rose-coloured ; the lower lip resembling *Cypripedium*.

borealis.

II. DIANDRIA.

678. CYPRIPEDIUM. *Swartz. act. holm.* 1800, p. 250.

- candidum.* 1. *C. caule folioso, foliis oblongo-lanceolatis, lobo styli lanceolato obtusiusculo, labello petalis lanceolatis breviori compresso.*—*Willd. sp. pl.* 4. p. 142.
In Pennsylvania. *Muhlenberg.* 2. + Resembles *C. Calceolus*; but the flowers are white, and not half the size: the form of the leaves and lobe of the style distinguish it sufficiently.
- parviflorum.* 2. *C. caule folioso, lobo styli triangulari acuto, petalis exterioribus ovato-oblongis acuminatis, interioribus linearibus contortis, labello petalis breviori compresso.* *Willd. sp. pl.* 4. p. 143.
C. Calceolus. *Mich. fl. amer.* 2. p. 161.
Icon. *Salisb. in linn. trans.* 1. p. 77. t. 2. f. 2. *Pluk. mant.* t. 418. f. 2.
In shady fertile woods: New Jersey to Carolina. 2. May, June. *v. v.* Petals greenish-brown; lower lip yellow, with brown spots.
- pubescens.* 3. *C. caule folioso, lobo styli triangulari-oblongo obtuso, petalis exterioribus ovato-oblongis acuminatis, interioribus longissimis linearibus contortis, labello petalis breviori compresso.* *Willd. sp. pl.* 4. p. 143.
C. flavescens. *Redout. pl. liliac.*
C. Calceolus. *B. Sp. pl.* 1346.
Icon. *Willd. hort. berol.* 1. t. 13. *Moris. hist.* 3. s. 12. t. 11 f. 15.
C. Calceolus. *Walt. fl. car.* 222.
On sunny fertile hills, among small trees and bushes, generally in rocky situations: Pennsylvania to Carolina. 2. May. *v. v.* Petals greenish-yellow with red spots; lower lip yellow. It approaches near to the preceding. Sometimes it is found with two or three flowers.
- spectabile.* 4. *C. caule folioso, lobo styli elliptico-cordato obtuso, petalis exterioribus lato-ovalibus obtusis, labello petalis longiori antice fisso.*—*Willd. sp. pl.* 4. p. 143.
C. album. *Ait. kew.* 3. p. 303.
C. canadense. *Mich. fl. amer.* 2. p. 161.
C. reginæ. *Walt. fl. car.* 222.

C. Calceolus γ. *Sp. pl.* 1346.

Icon. *Bot. mag.* 216. *Pluk. mant. t.* 418. *f.* 3. *Moris. hist.* 3. *s.* 12. *t.* 11. *f.* 17.

In low meadows and bogs, particularly in the mountainous tracts: Canada to Carolina. *℥.* May, June. *v. v.* From eighteen inches to three feet high. The plant in its foliage resembles *Helleborus viridis*; the flowers are generally by two, sometimes three, very large, the lower lip white with red veins, and crimson spots inside.

5. *C. canle folioso, lobo styli orbiculato obtusiusculo, petalis 5. duobus inferioribus lineari-lanceolatis deflexis, lateralibus linearibus horizontalibus, supremo ovato-oblongo acuto, labello longitudine petalorum antice obverse-conico saccato.*—*Ait. kew. ed. 2. tom. 5. p.*

In shady sphagnum woods, about Montreal, Canada. *M^cKenzie.* *℥.* May. *v. v.* Flower small, petals greenish-brown; lower lip white, with crimson veins; of a very singular structure, resembling at a front view a sheep's head, the two lateral petals forming the horns. The stem is pubescent, not a span high; leaves smooth, in general alternately by four. It distinguishes itself very strongly from all the rest by having five petals, and by the singular structure of its lower lip.

6. *C. scapo aphylo unifloro, foliis radicalibus geminis oblongis obtusis, lobo styli subrotundo-rhombeo acuminato deflexo, labello petalis lanceolatis longiore antice fisso.* *Willd. sp. pl. 4. p. 144.*

C. acaule. *Ait. kew. 3. p. 161.*

Icon. *Bot. mag.* 192. *Salisb. in linn. trans. 1. t. 3. f. 4.* *Catesb. car. app. t. 3. Pluk. mant. t. 418. f. 1.*

In shady rocky situations and on dry mountain bogs: Canada to Carolina. *℥.* May, June. *v. v.* Not much above a span high; flower purple, large. I have observed a white variety on the Broad mountains, Pennsylvania. The whole of this genus is known among the inhabitants by the name of *Mocassin Flower*, or sometimes *Ladies Slippers*.

Arietinum.

humile.

III. HEXANDRIA.

679. ARISTOLOCHIA. *Gen. pl.* 1383.*Sipho.*

1. *A. foliis cordatis acutis, caule volubili, pedunculis unifloris bractea ovata instructis, corollis adscendentibus, limbo trifido æquali.* *Willd. sp. pl.* 4. p. 155.

A. macrophylla. *Lam. encycl.* 1. p. 252.

Icon. Bot. mag. 534. *L'Herit. stirp. t.* 7.

On the mountains: Pennsylvania to Carolina. γ . June. *v. v.* A very high running vine; leaves large, and well calculated to form shady bowers; flowers very singular in structure, yellowish-brown; the leaves are more or less pubescent.

Serpentaria.

2. *A. foliis cordatis oblongis acuminatis, caule flexuoso adscendente, pedunculis radicalibus, corollæ labio lanceolato.* *Willd. sp. pl.* 4. p. 159.

In shady woods, on fertile soil: New England to Carolina; principally throughout the mountains. γ . May, June. *v. v.* This is the famous *Virginia Snake-root*, so very highly and, I think, deservedly esteemed by the Indians and white inhabitants of America. I have seen a very narrow and long-leaved variety of it, which, if there were any difference in the flowers, might claim to be a distinct species.

IV. DODECANDRIA.

680. ASARUM. *Gen. pl.* 801.*canadense.*

1. *A. foliis lato-reniformibus geminatis, calyce lanato profunde tripartito, laciniis sublanceolatis reflexis.*—*Mich. fl. amer.* 1. p. 279. *Willd. sp. pl.* 2. p. 838.

A. carolinianum. *Walt. fl. car.* 143.

A. latifolium. *Salisb. prodr.* 344.

Icon. Moris. hist. 3. s. 13. t. 7. f. 4. *Corn. canad. t.* 25.

In shady rocky situations: Canada to Carolina. γ . April. *v. v.* The root is highly aromatic, and known by the inhabitants under the name of *Wild Ginger*. It is said to be made use of by the Indian females to prevent impregnation.

2. *A. foliis solitariis rotundato-cordatis glabris coriaceis, flore subsessili, calyce extus glabro breviter campanulato.*—*Mich. fl. amer.* 1. p. 279. *Willd. sp. pl.* 2. p. 838. *virginicum.*

In shady rocky woods: Virginia and Carolina. ♀. May. v. v. Leaves white speckled, very smooth.

3. *A. foliis subhastato-cordatis coriaceis, calyce tubuloso infra limbum brevissimo trifidum coarctato.* *Mich. fl. amer.* 1. p. 279. *arifolium.*

A. virginicum. Walt. fl. car. 143.

In shady woods of Lower Carolina. ♀. May. v. v. Leaves speckled.

XIX. DICLINIA.

I. SEGREGATÆ.

* *Uniloculares.*

681. VALISNERIA. *Dioica. Masc. Spatha* 2-partita. *Spadix* conicus tectus flosculis. *Cal.* 3-partitus. *Stam.* 2. *Fem. Spatha* tubulosa, 2-fida, 1-flora. *Cal.* superus, longissimus, limbo 6-partito, laciniis alternis linearibus. *Stigmata* 3. semibifida. *Caps.* cylindrica, 1-locularis, polysperma.
682. NAJAS. *Monoica. Masc. Cal.* cylindricus, 2-fidus. *Stamen* 1. filamentum longo, anthera 4-valvi: valvis patentibus. *Fem. Cal.* 0. *Styl.* 1. *Stigm.* 2. *Nux* 4-sperma.
683. DIOTIS. *Monoica. Masc. Cal.* 4-phyllus. *Stam.* 4. *Fem. Cal.* 1-phyllus, bicornis. *Stylus* 2-partitus. *Sem.* 1. villosa, calyce bicorni tectum.
- ** *Tricoccae*; *Capsula* 3-locularis, 3-sperma. *Stamina* monadelphæ. *Monoica.*
684. RICINUS. *Masc. Cal.* 5-partitus. *Stam.* numerosa. *Fem. Cal.* 3-partitus. *Styli* 3. bifidi. *Caps.* echinata.
685. JATROPHA. *Masc. Cor.* 1-petala, infundibuliformis. *Stam.* 10. alterna breviora. *Fem. Cor.* 5-petala, patens. *Styli* 3. bifidi.
686. CROTON. *Masc. Cal.* cylindricus, 5-dentatus. *Cor.* 5-petala, aut 0. *Stam.* 10—15. *Fem. Cal.* polyphyllus. *Cor.* 0. *Styli* 3. bifidi.
687. ACALYPHA. *Cal.* 3—4-partitus, 1-bracteatus. *Masc. Bractea* squamiformis. *Stam.* 8—16. *Fem. Bractea* magna cordata involucrifera. *Styli* 3. bifidi.
688. TRAGIA. *Masc. Cal.* 3-partitus. *Stam.* 3. subsessilia. *Fem. Cal.* 5-partitus. *Stylus* 3-fidus.

689. **EUPHORBIA.** *Involucrum* commune calyciforme, limbo extrorsum appendicibus petaloideis, plerumque 5.; introrsum lacinulis totidem alternis et denticulatis. *Masc.* tot quot lacinulæ. *Cal.* polyphyllus: foliolis pinnatim laciniatis. *Stam.* 4-5. aut plura. *Flos fem.* centralis, nudus, solitarius, stipitatus. *Styli* 3. bifidi.
690. **STILLINGIA.** *Involucrum* coriaceum, urceolatum, in masculis multiflorum, 1-florum in femineis. *Cal.* tubulosus, infundibuliformis, limbo ciliato. *Masc.* *Stam.* 2. exerta, basi coalita. *Fem.* *Stylus* filiformis. *Stigm.* 3.

II. AMENTACEÆ.

* Flores dioici.

691. **SALIX.** *Amenta* cylindracea, imbricata: squamis 1-floris. *Cal.* O. *Masc.* *Glandula* baseos nectarifera. *Stam.* 1-6. interdum monadelphæ. *Fem.* *Styl.* bifidus. *Caps.* 1-locularis, 2-valvis, polysperma. *Sem.* papposa.
692. **POPULUS.** *Amenta* cylindracea, laxè imbricata: squamis margine laceris, 1-floris. *Cal.* urceolatus, integer. *Masc.* *Stam.* 8. exerta. *Fem.* *Stigma* 4-fidum. *Caps.* 2-locularis, 2-valvis, polysperma. *Sem.* papposa.
693. **MYRICA.** *Amenta* ovata, imbricata: squamis lunatis, trifloris. *Cal.* O. *Masc.* *Squama* 4-andra, rarius 6-andra. *Fem.* *Styli* 2. *Drupa* 1-sperma.

** Flores monoici.

694. **BETULA.** *Amenta* imbricata: squamis peltatis, 3-floris, 3-fidis. *Masc.* *Cal.* 4-partitus. *Stam.* 10-12. *Fem.* *Squama* 2-flora. *Cal.* O. *Stigm.* 2. *Sem.* 1. utrinque membrana alatum.
695. **ALNUS.** *Amentum* receptaculis cuneiformibus truncatis 3-floris compositum. *Masc.* *Cal.* 4-partitus. *Stam.* 4. *Fem.* *squama* biflora. *Cal.* O. *Stigm.* 2. *Sem.* 1. compressum, ovatum, apterum.
696. **CARPINUS.** *Amenta* laxè imbricata: squamis 1-floris. *Cal.* O. *Masc.* *Squama* ovata, ciliata. *Stam.* 6-10. *Antheræ* apice villosæ. *Fem.* *Squama* lanceolata, ciliata, biflora. *Germen* apice denticulatum. *Stigm.* 2. *Nux* ovata, sulcata.

697. *OSTRYA*. *Amenta* imbricata. *Masc. Cal.* squamæ. *Fil.* ramosa. *Fem. Amentum* nudum. *Caps.* inflatæ, imbricatæ, basi monospermæ.
698. *FAGUS*. *Masc. Amentum* subrotundum. *Cal.* 5-fidus, campanulatus. *Stam.* 8—12. *Fem. Cal.* 4-dentatus, setosus. *Germ.* 2. *Nuces* 2. calyce echinato, coriaceo, 4-fido inclusæ.
699. *CASTANEA*. *Masc. Amentum* nudum, lineare. *Cal.* sub-6-phyllus. *Stam.* 5—20. *Fem. Cal.* 5-6-phyllus, muricatus. *Germ.* 3. *Stigm.* penicilliformia. *Nuces* 3. calyce echinato inclusæ.
700. *QUERCUS*. *Masc. Amentum* nudum, lineare. *Cal.* sub-5-fidus. *Stam.* 4—10. *Fem. Cal.* plerumque 6-dentatus, scaber. *Styli* 2—5. *Nux* coriacea, calyce persistente basi cincta.
701. *CORYLUS*. *Masc. Amentum* imbricatum : squamis 3-fidis unifloris. *Cal.* 0. *Stam.* 8. *Fem. Cal.* bipartitus, lacerus. *Styli* 2. *Nux* ovata, calyce persistente cincta.
702. *LIQUIDAMBAR*. *Masc. Amentum* conicum, involucro 4-phylo cinctum. *Filam.* numerosa. *Fem. Amentum* globosum, involucro 4-phylo cinctum. *Cal.* urceolatus, biflorus. *Styli* 2. *Caps.* 2. basi cinctæ, 2-valves, polyspermæ.
703. *COMPTONIA*. *Masc. Amentum* cylindricum, laxè imbricatum ; squamis 1-floris. *Cal.* 2-phyllus. *Filam.* 3. bifurcata. *Fem. Amentum* ovatum. *Cal.* 6-phyllus. *Styli* 2. *Nux* ovata, 1-ocularis.
704. *PLATANUS*. *Amentum* globosum. *Masc. Cor.* vix manifesta. *Antheræ* filamentum circumnatæ. *Fem. Cor.* polypetala. *Styli* stigmatè recurvo. *Sem.* subrotunda, stylo mucronata, basi papposa.
705. *JUGLANS*. *Masc. Amentum* imbricatum. *Cal.* 6-partitus. *Filam.* 4—18. *Fem. Cal.* 4-fidus, superus. *Cor.* 4-partita. *Styli* 2. *Drupa* coriacea, nuce sulcata.
706. *MORUS*. *Amentum* subglobosum. *Masc. Cal.* 4-partitus. *Filam.* 4. *Fem. Cal.* 4-phyllus. *Styli* 2. *Cal.* baccatus. *Sem.* 1.

III. CONIFERÆ.

* *Flores monoici.*

707. PINUS. *Masc. Amentum* imbricatum. *Cal.* 4-phyl-lus. *Stam.* plurima. *Anth.* nudæ. *Fem. Cal.* stro-bili s. coni: squama biflora. *Pistill.* 1. *Nux* ala membranacea excepta.
708. CUPRESSUS. *Masc. Amentum* ovatum, imbrica-tum: squamis (20) oppositis, apice peltatis, basi 4-andris. *Anth.* sessiles. *Fem. Conus* subrotundus: squamis (8—10) oppositis, peltatis. *Germina* sub singulis plurima minima serie simplici. *Styl.* O. *Stigm.* cylindricum, fistulosum. *Nux* angulosa 1-sperma.
709. THUYA. *Masc. Amentum* ovatum: squamis 6. trino ordine oppositis, apice obtusis, basi 4-andris; *Anth.* substipitatae. *Fem. Conus* subovatus: squamis ob-longis apice incrassatis, longitudinaliter conniventibus. *Germina* 2. *Styl.* brevissimus. *Stigm.* con-cavum. *Caps.* 1-spermæ, margine alato.

** *Flores dioici.*

710. JUNIPERUS. *Amenta* ovata: squamis stipitato-peltatis. *Masc. Squamæ* ternatim verticillatæ, sti-pite 2—3—4-antherifero. *Fem. Squamæ* pauciores, cruciatim oppositæ. *Germ.* 1. *Styl.* O. *Stigm.* tu-bulosum. *Fructus* bacciformis, carnosus. *Nux* 1-ocularis.
711. TAXUS. *Gemma* polyphylla, opposite-imbricata. *Cal.* O. *Masc. Antheræ* peltatæ, 8-fidæ. *Fem. Germ.* 1. *Styl.* O. *Stigm.* 1. *Receptaculum* cupu-læforme, nuce ovata, nuda.
712. ZAMIA. *Amentum* strobiliforme. *Masc. Squama* obovata. *Cal.* O. *Antheræ* plures, globosæ, rima dehiscentes, in squama sessiles. *Fem. Squamæ* pel-tatæ. *Germ.* 2. *Styl.* O. *Baccæ* 2. 7-spermæ.

I. SEGREGATÆ.

681. VALLISNERIA. *Gen. pl.* 1491.

- americana.* 1. *V. foliis linearibus, pedunculis masculis femineisque rectis. Willd. sp. pl. 4. p. 651. Mich. fl. amer. 2. p. 220*

At the bottom of muddy and slow-flowing rivers: Mississippi and St. John's, Florida. *Michaux.* In Oswego river, New York; Delaware, Pennsylvania, and James's and Greenbriar rivers, Virginia. *Ph. 2. ♂ ? Aug. - Oct. v. v.* This most interesting and singular plant I observed in the Delaware, near Philadelphia, in 1800; which discovery I communicated, accompanied with a drawing and description, to Dr. B. S. Barton, of Philadelphia. The æconomy of its fecundation is highly interesting to the young student of the sexual system. Michaux and Willdenow consider it as specifically distinct from *V. spiralis*; but I have always considered it only a local variety, as the peduncles of the female flowers are in deep water really spiral.

682. NAJAS. *Willd. act. acad. berol.* 1798, p. 85.

- canadensis.* 1. *N. pusilla, filiformis, lævis; foliis angustissime linearibus. Mich. fl. amer. 2. p. 220.*
In lakes: Canada, on Lake St. John's. *Michaux. +.*

683. DIOTIS. *Gen. pl.* 1423.

- lanata.* 1. *D. omnibus partibus cano-tomentosa; caule flexuoso, glomerulis spicarum confertissimis.*
On the banks of the Missouri, in open prairies. *M. Lewis. 2. Aug. Sept. v. s. in Herb. Lewis.* Resembles *Diotis ceratoides*, but is distinct at first sight by its long woolly tomentum.

684. RICINUS. *Gen. pl.* 1464.

- communis.* 1. *R. foliis peltatis palmatis, lobis lanceolatis serratis, caule herbaceo pruinoso, stigmatibus tribus apice bifidis, capsulis echinatis. Willd. sp. pl. 4. p. 564.*
Icon. Blackw. t. 148.

In cultivated grounds, frequent in old plantations in Virginia and Carolina. ☉. Aug. Sept. *v. v.* Introduced by the Negroes. Known by the name of *Castor-oil Bean*.

685. JATROPHA. *Gen. pl.* 1463.

1. *J. herbacea*, stimulis patulis horridissima; foliis subpal-mato-lobatis, lobis obtusiusculis subsinuato-incisis, cymis brevi-pedunculatis. *Mich. fl. amer.* 2. p. 216. *stimulosa.*

J. urens. *Walt. fl. car.* 239.

Icon. *Pluk alm. t.* 220. *f.* 3. *Marcg. brass.* 79. *f.* 2.

In fields and plantations: Virginia to Florida. ♀. July, Aug. *v. v.* Flowers white; roots tuberous and eatable, the same as *J. Manihot*, which is so generally cultivated in the West Indies under the name of *Cassada*. The present plant is a very injurious weed in some parts of Carolina, as it ruins the Negroes' feet when they tread upon it; from which it is known by the name of *Tread-softly*.

686. CROTON. *Gen. pl.* 1462.

1. *C. foliis ellipticis integerrimis obtusiusculis incanis sub-tus tomentosis petiolatis, spicis terminalibus paucifloris*. *Willd. sp. pl.* 4. p. 532. *Walt. fl. car.* 239. *maritimum.*

C. disjunctiflorum. *Mich. fl. amer.* 2. p. 214.

- β. *C. spicis dichotomaiibus, flore femineo unico pedicellato*. *monanthogy-nium.* *Mich. fl. amer.* 2. p. 215.

On the sea-coast of Carolina; β. in Tennessee, near Nashville. ♀. ♀. June, July. *v. s.* The flowers of this genus are small and inconspicuous. The branches sometimes live over winter, but it cannot be considered a real shrub. Most of the species here mentioned are covered with stellated hairs.

2. *C. suffruticosum, stellato-tomentosum; foliis oblongis integerrimis subtus tomentosis petiolatis, pedunculis terminalibus subbifloris*.—*Willd. sp. pl.* 4. p. 535. *argyranthe-mum.*

C. punctatum. *Ju. q. ic. rar.* 3. t. 621.

In sterile woods of Georgia and Florida. ♀. ♀. July, Aug. *v. s.*

3. *C. hispidissimum; foliis oblongis serratis subtus hirtis basi subintegerrimis biglandulosis, caule trichotomo, spicis alaribus, capsulis glomeratim sessilibus*.—*Willd. sp. pl.* 4. p. 540. *glandulosum.*

C. scordioides. *Lam. encycl.* 2. p. 214.

Icon. *Jacq. ic. rar.* 1. t. 194.

On the sea-coast of Carolina and Florida. ☉. July, Aug. v. v.

- capitatum.* 4. *C. tomentosolanatum*; foliis oblongo-ovalibus obtusis basi rotundatis integris, utrinque tomentosis, floribus femineis ad basin spicillæ marium capitatum congestis. — *Mich. fl. amer.* 2. p. 214.
In the Illinois country. *Michaux.* ☉. +. Resembles *C. argenteum*.

687. ACALYPHA. *Gen. pl.* 1461.

- virginica.* 1. *A. floribus femineis ad basin spicæ masculæ, involucris ovatis acuminatis dentatis, foliis breviter petiolatis oblongo-lanceolatis remote obtuse-serratis.*—*Willd. sp. pl.* 4. p. 521.
Icon. *Pluk. phyt. t.* 99. f. 4.
In fields, cultivated grounds, and on road sides: Canada to Virginia. ☉. June—Aug. v. v.
- caroliniana.* 2. *A. floribus femineis ad basin spicæ masculæ, involucris cordatis dentatis, foliis longe petiolatis subrhombicovatis serratis basi integerrimis.*—*Willd. sp. pl.* 4. p. 521. *Walt. fl. car.* 238.
In cultivated grounds: Virginia to Florida. ☉. July, Aug. v. v.

688. TRAGIA. *Gen. pl.* 1410.

- urens.* 1. *T. erecta*; foliis lanceolatis sessilibus obtusis apice subdentatis, cauleque ramoso pubescentibus. *Willd. sp. pl.* 4. p. 325.
- subovalis.* α. *T. foliis oblongo-ovalibus nonnullis subcuneatis.* *Mich. fl. amer.* 2. p. 175.
Icon. *Pluk. alm. t.* 107. f. 5.
- lanceolata.* β. *T. foliis lanceolatis subdentatis integrisque.* *Mich. l. c.*
T. innocua. *Walt. fl. car.* 229.
- linearis.* γ. *T. foliis linearibus fere omnibus integris.* *Mich. l. c.*
In waste places, on road sides and cultivated grounds: Virginia to Carolina. ☉. June—Aug. v. v.
- urticifolia.* 2. *T. erecta*, caule hirsutissimo, foliis cordatis ovatis serratis. — *Willd. sp. pl.* 4. p. 324.
T. mercurialis. *Walt. fl. car.* 229.
In fields: Virginia to Georgia. ☉. July. v. s. in *Herb. Lyon.*

3. *T. scandens*, hispida; foliis profunde cordatis ovatis acute dentatis.—*Willd. sp. pl.* 4. p. 323. *macrocarpa*.
In Kentucky. *Michaux.* ☉. July. *v. s. in Herb. Lyon.*

689. EUPHORBIA. *Gen. pl.* 823.

* *Floribus fasciculato-terminalibus.*

1. *E. frutescens*; foliis petiolatis ovatis subdentatis panduriformibus, summis involucellisue coloratis, floribus subumbellatis.—*Willd. sp. pl.* 2. p. 891. *cyathophora*.
E. heterophylla. *Jacq. collect.* 1. p. 157.
Icon. *Jacq. ic. rar.* 3. t. 480. *Murr. comm. gœt.* 7. p. 81. t. 1.
On the banks of the Mississippi, and in Georgia and Florida. ♀. ☉. June, July. *v. v.* About three feet high; upper leaves and involucre painted deep red.
2. *E. pumila*, hirsuta; foliis oppositis ovalibus dentatis, flores ad summities congestis. *Mich. fl. amer.* 2. p. 211. *dentata*.
In shady rocky situations: Pennsylvania to Tennessee. ☉. July, Aug. *v. v.* The upper leaves spotted.
3. *E. pusilla*, erecta, ramosa, pubescens; foliis sparsis linearibus integerrimis, supremis basi discoloribus.—*Mich. fl. amer.* 2. p. 210. *graminifolia*.
On the sea-coast of Georgia and Florida. *Michaux.* +. Resembles *E. hyssopifolia*.

** *Dichotomæ.* (Umbella bifida aut nulla.)

4. *E. glabra*, ramosissima, patulo-erecta; ramis divaricatis, foliis oppositis serratis ovali-oblongis subfalcatis corymbis terminalibus.—*Willd. sp. pl.* 2. p. 895. *hypericifolia*.
Icon. *Comm. præl.* 60. t. 10. *Rob. ic.* 11. *Sloan. hist. jam.* 1. t. 126.
On the banks of rivers and in cultivated sandy grounds: Canada to Florida. ☉. June—Sept. *v. v.*
5. *E. erecto-patula*; foliis oppositis serratis oblongis pilosis, floribus axillaribus solitariis, appendicibus calycinis coloratis.—*Willd. sp. pl.* 2. p. 896. *maculata*.
Icon. *Jacq. hort. vind.* t. 186. *Pluk. alm.* t. 65. f. 8.
In cultivated grounds: Pennsylvania to Carolina. ☉. July—Sept. *v. v.* Leaves marked with a brown spot. The involucre of the florets white.

- thymifolia.* 6. *E. humifusa*, gracilis, pubescens; foliis oppositis ovali-oblongis obtusis superne subserratis, capitulis axillaribus glomeratis subsessilibus.—*Willd. sp. pl.* 2. p. 898.
Icon. *Pluk. alm. t.* 113. f. 2. *Burm. zeyl. t.* 105. f. 3.
On the banks of the Ohio and Mississippi. ☉. June—Aug. v. v.
- polygonifolia.* 7. *E. glaberrima*, diffusa; foliis oppositis integerrimis lineari-lanceolatis obtusis, floribus solitariis axillaribus.—*Willd. sp. pl.* 2. p. 900.
Icon. *Jacq. collect. suppl. t.* 13. f. 3.
In cultivated grounds: Canada to Virginia. ♀. June—Sept. v. v.
- Ipecacuanhæ.* 8. *E. procumbens*, pumila, glabra; foliis oppositis obovatis seu lanceolatis, pedunculis axillaribus unifloris elongatis.—*Willd. sp. pl.* 2. p. 900.
Icon. *Bot. mag.* 1494.
In pine-barrens: New Jersey to Carolina. ♀. June, July. v. v. This humble species has perhaps the deepest root of any perennial I know; I frequently have dug to the depth of more than six feet, and was by appearance as far off from its end as ever.
- portulacoides.* 9. *E. erecta*; foliis integerrimis ovalibus retusis, pedunculis axillaribus unifloris folia æquantibus.—*Willd. sp. pl.* 2. p. 901.
In sandy soil, and cultivated grounds: Pennsylvania. ♀. June—Aug. v. v.
- pubentissima.* 10. *E. erecta*; caule calycibusque pubescentibus, foliis oppositis sessilibus subcordato-ovalibus obtusis, pedunculis solitariis capillaribus unifloris, appendicibus calycinis coloratis petaloideis. *Mich. fl. amer.* 2. p. 212.
In Carolina. *Michaux.* ♀. +

*** *Umbellatæ; involucatæ.*

- Peplus.* 11. *E. umbella* 3-fida: dichotoma, involucellis ovatis, foliis integerrimis obovatis petiolatis. *Willd. sp. pl.* 2. p. 903.
Icon. *Engl. bot.* 959.
In cultivated grounds: Pennsylvania and Virginia. ☉. July, Aug. v. v.
- obtusata.* 12. *E. umbellata* 3-fida: bis dichotoma, involucellis ovatis obtusiusculis subcordatis, foliis alternis sessilibus spathulatis involucellisque serrulatis glabris, capsulis muricatis.

In cultivated grounds: Virginia, near Staunton. $\mathcal{U}$.
July, Aug. *v. v.* Resembles *E. spathulata*.

13. *E. caulibus gracile-debilibus, simpliciter 3-fidis, foliis oppositis ternisve subsessilibus ovalibus integris, pedunculis terminalibus solitariis unifloris.*—*Mich. fl. amer.* 2. p. 212. *mercurialina.*

In shady rocky situations: Pennsylvania and Kentucky.
 $\mathcal{U}$. July, Aug. *v. v.* Resembles in aspect *Mercurialis annua*.

14. *E. umbella 3-fida: bis dichotoma, involuacro foliiforme, involucellis oblongis cordatis margine membranaceis coloratis, foliis lanceolato-oblongis subcordato-amplexicaulibus acutis glaucescentibus glabris, appendicibus calycinis petaloideis subrotundis, capsulis pilosis.* *marginata.*

On the Yellow-stone river. *M. Lewis*. $\odot$. July. *v. s.*
in Herb. Lewis. A very handsome species; the white margin of the involucre and white petal-like appendices have a fine contrast with the elegant soft green leaves.

15. *E. umbella 4-fida: dichotoma, foliis oppositis lanceolatis integerrimis.* *Willd. sp. pl.* 2. p. 906. *Lathyris.*

Icon. *Blackw. t.* 123.

Not native, but frequently found near gardens and in cultivated ground. $\mathcal{J}$. July, Aug. *v. v.* It is generally known in America by the name of *Mole-plant*, it being supposed that no moles disturb the ground where this plant grows.

16. *E. umbella 5-fida: 3-fida: dichotoma; involucellis foliisque oblongis obtusis, appendicibus calycinis petaloideis obovatis.*—*Willd. sp. pl.* 2. p. 916. *corollata.*

Icon. *Pluk. mant. t.* 446. f. 3.

In dry fields: Canada to Carolina. $\mathcal{U}$. July, Aug. *v. v.*
It is very variable in its foliage: sometimes the leaves are quite linear.

17. *E. umbella 5-fida: trifida: bifida, involucris ovatis, petalis integris, foliis lanceolatis subpilis apice serrulatis.* *Willd. sp. pl.* 2. p. 917. *pilosa.*

Icon. *Gmel. sib.* 2. t. 93.

In shady wet woods, in the mountains of Maryland and Virginia. $\mathcal{U}$. June, July. *v. v.* From two to four feet high.

690. STILLINGIA. *Gen. pl.* 1470.

- sylvatica.* 1. *S. herbacea* ; foliis sessilibus oblongis obtusis basi attenuatis serrulatis, flosculis masculis squamam floralem vix superantibus.—*Willd. sp. pl.* 4. p. 588.
In pine-barrens: Virginia to Florida. ♀. May, June. *v. v.* Flowers yellow, in a spike, resembling a catkin.
- ligustrina.* 2. *S. fruticosa* ; foliis petiolatis ovali-lanceolatis utrinque attenuatis integerrimis, flosculis masculis brevissime pedicellatis.—*Willd. sp. pl.* 4. p. 588.
In shady woods : Carolina and Georgia. ♀. June, July. *v. v.*
- sebifera.* 3. *S. arborea* ; foliis petiolatis rhombeis acuminatis integerrimis, infra basin glandula petiolari, floribus masculis pedicellatis.—*Willd. sp. pl.* 4. p. 588.
Croton sebiferum. Sp. pl. 1425.
Icon. Pet. gaz. t. 54. *f.* 3. *Pluk. amalth. t.* 390. *f.* 2.
On the sea-coast of South Carolina ; originally a native of China. ♀. July, Aug. *v. v.* Known by the name of *Tallow Tree*.

II. AMENTACEÆ.*

691. SALIX. *Gen. pl.* 1493.

* *Foliis integerrimis aut obsolete serratis ; vernatio revoluta.*

- viminalis.* 1. *S. foliis lanceolato-linearibus longissimis acuminatis integerrimis subundulatis subtus sericeo-argenteis, versus marginem sparse glandulosis, stipulis exiguis, amentis præcocibus, squamis subrotundis pilosissimis, geminibus sessilibus ovatis, stylo filiformi, stigmatibus acutis indivisis.*—*Willd. sp. pl.* 4. p. 706.
Icon. Hoffm. salic. 1. t. 2. *f.* 1 ♂ 2. *t.* 5. *f.* 2. *t.* 21. *f.* e. *f.* g.
On the banks of rivers and about plantations ; introduced from Europe. ♀. April, May. *v. v.* Filaments yellow, anthers orange.
- candida.* 2. *S. foliis lineari-lanceolatis longissimis apice obsolete denticulatis supra pubescentibus subtus niveo-tomentosis margine revolutis, stipulis lanceolatis petiolum subæ-*

quantibus, amentis præcocibus cylindraceis, squamis obovato-lanceolatis longissime villosis.—*Willd. sp. pl.* 4. p. 708.

In dry shady woods: New York to Pennsylvania. $\frac{1}{2}$. April, May. *v. v.* The native place of this willow is not mentioned by Willdenow; but a plant in the collection of G. Anderson, Esq. which was found among a promiscuous collection of willows made by me on the Catskill mountains, New York, decides the question. To this gentleman's acute observations I am indebted for the present division of *Salices* "*vernatio revoluta*," as likewise for the greater part of the present arrangement of American willows.

3. *S. foliis lanceolatis acutiusculis subintegerrimis pubescenti-canis, subtus rugoso-venosis, margine revolutis, stipulis deciduis lanceolatis, amentis præcocibus dian-dræis, squamis oblongis margine villosis, germinibus ovato-lanceolatis sericeo-villosis longe pedicellatis, stylo brevi, stigmatibus bifidis.*—*Willd. sp. pl.* 4. p. 692.

Muhlenbergiana.

S. tristis. Muhl. in annals of bot. 2. p. 68. t. 5. f. 9.

S. alpina. Walt. fl. car. 243.

S. flava. Schæpf. mat. med. amer.

In shady dry woods: New York to Virginia. $\frac{1}{2}$. April. *v. v.* From three to five feet high; branches greenish-yellow, with black dots; the anthers are purple, changing to yellow when burst; scales white with a red tip, which gives the catkins a very pleasing appearance. In this and the following species I have not been able to ascertain whether the vernatio is revolute; but their natural affinity to the preceding ones strongly indicates that they are so.

4. *S. foliis lineari-lanceolatis utrinque acutis integerrimis margine revolutis supra glabriusculis subtus rugoso-venosis tomentosis, stipulis nullis, amentis præcocibus oblongis.*—*Willd. sp. pl.* 4. p. 693.

tristis.

In dry sandy woods: New Jersey to Carolina. $\frac{1}{2}$. March, April. *v. v.*; *v. s. in Herb. Banks.* Approaches near to the preceding.

5. *S. foliis obovato-lanceolatis acutis integerrimis margine glandulosis glabris subtus glaucis, junioribus sericeis, stipulis nullis, amentis præcocibus recurvatis, squamis apice nigris, pilis longitudine germinis, germinibus ovatis brevi-pedicellatis sericeis, stylo brevissimo, stigmatibus bifidis.*

recurvata.

In shady woods, in the mountains of New Jersey and Pennsylvania. $\frac{1}{2}$. April. *v. v.* A low shrub ; branches brown, smooth ; buds yellow.

** *Foliis integerrimis aut obsolete serratis ; vernatio equitans.*

† *Caule repente, depresso aut diffuso.*

repens.

6. *S. repens* ; foliis elliptico-lanceolatis integerrimis acutis glabris subtus subsericeis, stipulis nullis, amentis præcocibus ovatis diandris, squamis obovatis obtusis pilosis apice fuscis, germinibus ovato-oblongis pedicellatis pubescentibus, stylo brevissimo, stigmatibus bilobis, capsulis glabris.—*Willd. sp. pl.* 4. p. 693.

S. depressa. *Hoffm. salic.* 1. t. 15 & 16.

S. polymorpha. *Ehrh. frut.* 49.

In Nova Scotia and Newfoundland. $\frac{1}{2}$. May. *v. s. in Herb. Banks.* A very small creeping species.

reticulata.

7. *S. repens* ; foliis elliptico-orbiculatis obtusis integerrimis glabris reticulato-venosis subtus glaucis, stipulis nullis, amentis serotinis pedunculatis diandris, squamis obovatis obtusis pubescentibus, germinibus ovatis sessilibus villosis, stigmatibus subsessilibus bipartitis.—*Willd. sp. pl.* 4. p. 685.

Icon. Fl. dan. 212. *Hoffm. salic.* t. 15. 16. 17. *Fl. lapp.* t. 8. f. L. & t. 7. f. 1 & 2.

In Labrador, Newfoundland, and on the north-west coast. $\frac{1}{2}$. June. *v. s. in Herb. Banks.* A very low creeping species ; leaves very handsomely marked with coloured veins.

vestita.

8. *S. repens* ; foliis suborbiculatis integerrimis supra glabris reticulato-venosis subtus villis sericeis longissimis adpressis tectis, stipulis nullis, amentis serotinis pedunculatis linearibus sericeis, germinibus ovatis sessilibus villosis, stylo profunde bipartito, stigmatibus bifidis.

In Labrador. $\frac{1}{2}$. June. *v. s. in Herb. Lambert. et Banks.* A very elegant species, resembling the preceding.

Uva ursi.

9. *S. depressa* ; foliis spathulato-obovatis obtusis integerrimis, inferne margine sparse glandulosis, glabris, supra nitidis, stipulis nullis, amentis serotinis laxis, squamis oblongis ciliatis, germinibus ovatis pedicellatis glabris, stylo bipartito, stigmatibus bilobis.

In Labrador. $\frac{1}{2}$. April, May. *v. v. in Hort. Anderson.*

For this beautiful little species I am indebted to G. Anderson, Esq.; it has all the appearance of *Arbutus Uva ursi* in habit, as well as in the form of its leaves.

10. *S. depressa*; foliis ovalibus subacutis basi cordatis integerrimis reticulato-venosis supra glabris, subtus pallidis nervo margineque pilosis, stipulis semicordatis. *cordifolia.*

In Labrador. η . v. v. s. fl. in *Hort. Anderson.* In general habit it resembles *S. myrsinæ*.

11. *S. diffusa*; foliis obovatis obtusis integerrimis supra glabris, subtus sericeo-villosis, stipulis nullis, amentis subcoætaneis sessilibus oblongis 2-andris, squamis obovatis apice pilosis. *obovata.*

In Labrador. η . *Colmaster.* North-west coast. *Nelson.* η . May. v. s. in *Herb. Dickson. et Banks.* This species is allied to *S. Arenaria* Linn. and is more inclined to be upright than the preceding.

12. *S. erectiuscula*, divaricata; ramulis lævigatis, foliis oblongo-lanceolatis utrinque acutis medio serrulatis glaberrimis patentibus planis discoloribus, stipulis nullis. *planifolia.*

In Labrador. η . v. v. s. fl. in *Hort. Anderson.* This singular species distinguishes itself at first sight by its remarkable plain and patent leaves; it is inclined to rise from the ground on a single low stem, and approaches to the following division.

†† *Caule erecto.*

13. *S. ramulis lævigatis*, foliis obovato-lanceolatis acutis integerrimis utrinque glabris concoloribus, stipulis nullis, amentis coætaneis pedunculatis glaberrimis, squamis oblongis pedicello duplo brevioribus vix pilosis, germinibus ovato-oblongis longissime pedicellatis glabris, stigmatibus sessilibus bifidis. *pedicellaris.*

S. pensylvanica. Hortul.

On the Catskill mountains, New York. η . April. v. v. This elegant and singular species flowered in the garden of G. Anderson, Esq., from a plant brought by me from America. He has one through another channel, which appears to be the male to this species.

14. *S. foliis suboppositis obovato-lanceolatis acutis glabris apice subserratis discoloribus, stipulis nullis, amentis præcocius, squamis orbiculatis nigris, filamento unico, anthera geminata, germinibus sessilibus ovato-ellipticis sericeis, stylo brevissimo, stigmatibus ovatis emarginatis.*—*Willd. sp. pl. 4. p. 673.* *Lambertiana.*

Icon. *Engl. bot.* 1359.

On the banks of rivers and in willow grounds; introduced from Europe. $\frac{1}{2}$. March, April. *v. v.* It is cultivated on account of its exceeding tough branches for the use of making baskets.

rosmarinifolia.

15. *S. foliis strictis lineari-lanceolatis utrinque acutis integerrimis margine subglandulosis supra deciduo-pubescentibus, subtus sericeis, stipulis exiguis lanceolatis erectis, amentis præcoccibus ovatis recurvatis, squamis oblongis obtusis ciliatis, germinibus pedicellatis lanceolatis villosis, stigmatibus subsessilibus bifidis.*—*Willd. sp. pl.* 4. *p.* 679.

Icon. *Engl. bot.* 1365.

In wet meadows and mountain swamps: Pennsylvania to Carolina. $\frac{1}{2}$. March, April. *v. v.* Not above three feet high. This species, though mentioned as a British plant in the *Flora Britannica*, is decidedly of American origin; as both sexes have been introduced from that country by G. Anderson, Esq. It has a great resemblance in general character to *S. recurvata*, but the *vernatio equitans* removes them far from one another.

fuscata.

16. *S. foliis obovato-lanceolatis acutis glabris subserratis subtus glaucis, junioribus pubescentibus, stipulis exiguis, amentis præcoccibus nutantibus, squamis obtusis intus vix pilosis, germinibus brevi-pedicellatis ovatis sericeis, stigmatibus sessilibus bilobis.*

In low overflowed grounds, on the banks of rivers: New York to Pennsylvania. $\frac{1}{2}$. March, April. *v. v.* Branches of the preceding year covered with a dark brown or black tomentum.

*** *Foliis remote obtuseque serratis.*

conifera.

17. *S. foliis oblongo-lanceolatis remote serratis acutis supra glabris subtus planis tomentosis, annotinis glabris, stipulis lunatis subdentatis, amentis præcoccibus diandris, squamis lanceolatis obtusis villosis, germinibus pedicellatis lanceolatis sericeis, stylo bifido, stigmatibus bilobis.*—*Willd. sp. pl.* 4. *p.* 705.

S. longirostris. Mich. fl. amer. 2. *p.* 226.

Icon. *Wangh. amer.* t. 31. *f.* 72.

In shady woods on gravelly dry soil: New York to Carolina. $\frac{1}{2}$. April. *v. v.* The cone-like excrescence at the end of the branches, occasioned by an insect, is not unfrequently found on other species belonging

to the present division, but particularly on *S. prinoides*.

18. *S. foliis oblongo-lanceolatis acutis basi biglandulosis obtuse serratis glabris subtus glaucis, stipulis ovatis acutis glanduloso-serratis, amentis coætaneis villosis basi foliosis, squamis lanceolatis obtusis villosis atris, germinibus longe pedicellatis lanceolatis glabris, stylo bifido, stigmatibus bifidis.*—*Willd. sp. pl.* 4. p. 666.

myricoides.

Icon. *Muhl. in annals of bot.* 2. t. 5. f. 2.

In wet meadows and woods: New England to Virginia.

h. April. v. v. Branches green; younger ones purple, smooth.

19. *S. foliis ovali-oblongis acutis remote undulato-serratis glabris subtus glaucis, stipulis semicordatis inciso-dentatis, amentis præcocibus villosis, germinibus pedicellatis ovatis acuminatis sericeis, stylo longo, stigmatibus bifidis.*

prinoides.

On the banks of rivers: Pennsylvania to Virginia.

h. March, April. v. v. Middle-sized; resembles *S. discolor*.

20. *S. foliis oblongis obtusiusculis glabris remote-serratis apice integerrimis subtus glaucis, stipulis deciduis lanceolatis serratis, amentis subcoætaneis diandris oblongis tomentosis, squamis oblongis acutis atris pilosis, germinibus subsessilibus lanceolatis tomentosis, stylo mediocri, stigmatibus bipartitis.*—*Willd. sp. pl.* 4. p. 665.

discolor.

Icon. *Muhl. in annals of bot.* 2. t. 5. f. 1.

In low grounds and on the banks of rivers; common: New England to Carolina. h. April. v. v. Branches dark brown; filaments white; anthers red, yellow when burst. This is the most common in use for basket-making.

21. *S. foliis lanceolatis acutis longissimis basi sensim attenuatis serrulatis glaberrimis subconcoloribus, stipulis semicordatis, amentis præcocibus erectis glabriusculis, germinibus pedicellatis ovatis glabris, stylo bifido, stigmatibus 2-lobis.*

angustata.

In shady woods on the banks of rivers: New York and Pennsylvania. h. March, April. v. v. Leaves very long; resembles *S. prinoides*.

22. *S. foliis linearibus utrinque acuminatis elongatis remotissime denticulatis glabris concoloribus, stipulis exiguis lanceolatis denticulatis, amentis serotinis pedun-*

longifolia.

culatis tomentosis diandris, squamis planis retusis, filamentis basi barbatis squama duplo longioribus.—*Willd. sp. pl.* 4. p. 670.

Icon. *Muhlbb. in annals of bot.* 2. t. 5. f. 6.

On the banks of the Susquehanna. *Muhlenberg.* 2. July. +. Not above two feet high; branches brown; branchlets white.

**** *Foliis dense acuteque serratis.*

† *Triandræ.* (Filamentis 3—6.)

babylonica. 23. *S. ramis pendulis, foliis lanceolatis acuminatis serratis glabris discoloribus, stipulis exiguis subrotundis, amentis coætaneis, germinibus sessilibus ovatis glabris.*—*Willd. sp. pl.* 4. p. 671.

On road sides and about plantations; introduced from Europe. 2. May. v. v. The *Weeping Willow* is now almost naturalized, being every where planted for ornament.

Houstoniana. 24. *S. foliis lineari-lanceolatis acutis tenuissime serratis utrinque glabris nitidis concoloribus, stipulis nullis, amentis coætaneis cylindricis villosis, squamis ovatis acutis, filamentis 3—5. usque ad medium barbatis.*

S. tristis. Hortul.

In Virginia and Carolina. 2. v. v. s. fl.; v. s. c. fl. in *Herb. Banks. specimen Houstonianum.* This species, so frequently found in the gardens under the name of *S. tristis*, is very far from being in any way related to it. The specimen in the Banksian Herbarium was collected by Houston, and, as it is said, in Vera Cruz. But I am confident it is a more northern plant, as I frequently have seen it in Virginia. The branches are extremely brittle at their base.

falcata. 25. *S. foliis longissimis lineari-lanceolatis superne sensim attenuatis subfalcatis basi acutis approximato-serratis utrinque glabris, junioribus sericeis, stipulis lunatis dentatis deflexis.*

On the banks of rivers: Pennsylvania to Virginia. 2. v. v. s. fl. A very smooth species; branches very slender and brown.

nigra. 26. *S. foliis lanceolatis utrinque acutis serrulatis concoloribus glabris petiolis et nervo medio supra tomentosis, stipulis exiguis dentatis, amentis coætaneis erectis cylindricis villosis, squamis oblongis villosissimis, filamentis 3—6. basi barbatis, germinibus pedicellatis ovatis gla-*

bris, stylo brevissimo ; stigmatibus bifidis.—*Willd. sp. pl.* 4. p. 657. *Marsh. arb.* 293.

S. caroliniana. Mich. fl. amer. 2. p. 226.

S. pentandra. Walt. fl. car. 243.

S. vulgaris. Clayt. fl. virg.

Icon. *Mich. arb.* 3. t. *Muhl. in annals of bot.* 2. t. 5. f. 5.

On the banks of rivers : Pennsylvania and Virginia. $\frac{1}{2}$. May. *v. v.* A tree about twenty feet high ; branches smooth, very brittle at the base.

27. *S. foliis ovato-oblongis cuspidato-acuminatis basi rotundatis serratis glandulosis utrinque glabris nitidis, stipulis oblongis glanduloso-serratis, amentis coætaneis sub-3-andris, squamis lanceolatis obtusis basi pilosis apice serratis glabris, germinibus lanceolato-subulatis glabris, stylo bifido, stigmatibus obtusis.*—*Willd. sp. pl.* 4. p. 667.

lucida.

Icon. *Muhl. in annals of bot.* 2. t. 5. f. 7. *Mich. arb.* 3. t.

In low grounds, about springs : New York to Virginia. $\frac{1}{2}$. May. *v. v.* A very smooth and handsome species ; branches yellowish brown ; sometimes it grows to the size of a tree, but more generally it is only a shrub. It approaches to *S. amygdalina* of Europe.

28. *S. foliis oblongo-lanceolatis acuminatis basi subcordatis rigidis glabris argute serratis, serratura infima elongata, petiolis villosis, stipulis amplis cordatis obtusis glanduloso-serratis, amentis coætaneis sub-3-andris, squamis lanceolatis atris lanatis, germinibus longe pedicellatis lanceolatis glabris, stylo brevissimo, stigmatibus bipartitis.*—*Willd. sp. pl.* 4. p. 667.

rigida.

S. cordata. Mich. fl. amer. 2. p. 225.

S. cordifolia. Herb. Banks. mss.

Icon. *Muhl. in annals of bot.* 2. t. 5. f. 4.

In swamps and hedges : New England to Virginia. $\frac{1}{2}$. April, May. *v. v.* Branches green, red towards the end, younger ones pubescent. It is very tough, and much in use by the basket-makers.

29. *S. foliis oblongo-lanceolatis acuminatis basi cordatis argute serratis glabris subtus pallidioribus, stipulis amplis ovato-subrotundis cartilagineo-serratis, amentis coætaneis sub-3-andris, squamis lanceolatis lanatis atris, germinibus pedicellatis lanceolatis glabris, stylo*

cordata.

brevissimo, stigmatibus bifidis.—*Willd. sp. pl.* 4. p. 666.

Icon. *Muhlb. in annals of bot.* 2. t. 5. f. 8.

In low and swampy grounds, on the banks of rivers : New York to Virginia. h. April, May. v. v. A very elegant species, about six or eight feet high.

†† *Diandræ*.

grisea.

30. *S. foliis lanceolatis acuminatis serrulatis supra glabris nervo medio tomentosis subtus sericeis nudisve, stipulis linearibus deflexis deciduis, amentis præcocibus, squamis oblongis pilosis apice atris, germinibus oblongis pedicellatis sericeis, stigmatibus sessilibus obtusis.*—*Willd. sp. pl.* 4. p. 699.

S. sericea. Muhlb. in annals of bot. 2. t. 5. f. 8. *Marsh. arb.*

In low overflowed grounds : Pennsylvania to Virginia. h. April. v. v. About eight feet high ; branches greenish-purple, very brittle at the base.

petiolaris.

31. *S. foliis lanceolatis undique serratis glabris subtus glaucis sericeis basi plerumque inæqualibus, stipulis lunatis dentatis exiguis, amentis præcocibus laxis, squamis obovatis obtusis nigris pilosis, germinibus longe pedicellatis ovatis sericeis, stigmatibus sessilibus bilobis.*—*Willd. sp. pl.* 4. p. 665.

S. pensylvanica. Hortul.

Icon. *Engl. bot.* 1147.

In swamps and on the banks of rivers ; common. h. April. v. v. ; v. s. in *Herb. Lambert. et Anderson*. Branches slender, smooth, dark brown. It has been by mistake adopted as a native of Great Britain.

alta.

32. *S. foliis lanceolatis acuminatis serratis utrinque sericeis, serraturis infimis glandulosis, stipulis obsoletis, amentis coætaneis elongatis, squamis elliptico-lanceolatis concoloribus pubescentibus, germinibus subsessilibus ovato-oblongis denique glabratis, stylo brevi, stigmatibus bipartitis crassis.*—*Willd. sp. pl.* 4. p. 710.

Icon. *Hoffm. salic.* 1. t. 7. & 8. & t. 24. f. 3.

On road sides and river banks ; introduced from Europe. h. April, May. v. v. A tall tree.

vitellina.

33. *S. foliis lanceolatis acuminatis crebro-serratis supra glabris subtus discoloribus subsericeis, stipulis nullis, amentis subcoætaneis cylindricis, squamis ovato-lan-*

œolatis concoloribus extus pubescentibus, germinibus sessilibus ovato-lanceolatis glabris, stigmatibus subsessilibus bilobis.—*Willd. sp. pl.* 4. p. 668.

Icon. *Hoffm. salic.* 1. t. 11. ♂ 12. ♂ t. 24. f. 1. *Engl. bot.* 1050.

On road sides and about plantations; common. Introduced from Europe. $\frac{1}{2}$. May. *v. v.* A middle-sized tree.

34. *S. foliis lanceolatis acuminatis concoloribus glabris glanduloso-serratis, amentis coætaneis, nectario gemino majusculo: lobis lanceolatis difformibus apice dentatis glabris, flosculis terminalibus 3-andris.*

ambigua,

In low grounds: New York and New Jersey. $\frac{1}{2}$. April. *v. v.* Resembles in leaves and habit the preceding, and in fructification the following.

35. *S. foliis lanceolatis acuminatis undique serratis glaberrimis concoloribus, petiolis dentato-glandulosis, stipulis rotundatis, amentis subcoætaneis, squamis obovatis villosis, nectario masculorum gemino, germinibus subsessilibus lanceolatis glabris, stigmatibus sessilibus bipartitis.*—*Hoffm. salic.* 2. t. 31. *Engl. bot.* 1937.

decipiens,

On road sides and about plantations. Introduced from Europe. $\frac{1}{2}$. April, May. *v. v.* A tall tree; branches very brittle.

36. *S. foliis elliptico-ovatis undique serrulatis utrinque glabris nitidis concoloribus, stipulis lanceolatis serratis, ramulis hirtis, amentis subpræcocibus erectis cylindricis, squamis lanceolato-oblongis longe villosis, germinibus ovato-lanceolatis sessilibus sericeis, stigmatibus subsessilibus bifidis.*—*Willd. sp. pl.* 4. p. 678.

myrsinites,

Icon. *Fl. lapp.* t. 8. f. f. t. 7. f. 6. *Fl. dan.* 1054. *Hoffm. salic.* t. 18.

In Labrador. $\frac{1}{2}$. May. *v. v. in Hort. Anderson.; v. s. in Herb. Lambert.* A small straggling bush, not above a foot high; branches purplish-yellow.

37. *S. foliis orbiculatis subretusis serratis utrinque glabris nitidis, stipulis nullis, amentis serotinis paucifloris, squamis obovatis obtusis villosis, germinibus oblongo-ovatis subsessilibus glabris, stigmatibus brevissimis subsessilibus.*—*Willd. sp. pl.* 4. p. 682.

herbacea.

Icon. *Fl. dan.* 117. *Hoffm. salic.* 1. t. 20. *Fl. lapp.* t. 8. f. h. t. 7. f. 3. ♂ 4.

On the north-west coast. *D. Nelson.* $\frac{1}{2}$. June, July.

v. s. in Herb. Banks. The smallest of all the known species; the stems not above an inch high.

692. *POPULUS*. *Gen. pl.* 1531.

- balsamifera*. 1. *P. foliis ovatis acuminatis adpresso-serratis subtus albidis reticulato-venosis, gemmis resinosis. Willd. sp. pl.* 4. *p.* 805.
Icon. Mich. arb. 3. *p.* 306. *t.* 13. *f.* 1. *Duham. arb. ed. nov.* 2. *t.* 50. *Pall. fl. ross.* 1. *t.* 41. *Wangh. amer.* *t.* 28. *f.* 59. *Trew chret. t.* 46. *bona.*
 In Canada, particularly plenty about Hudson's Bay. $\frac{1}{2}$. March. *v. v.* From seventy to eighty feet high; the young buds are covered with a very odoriferous balsam, from which it is called *Balsam Poplar*; the natives call it *Tacamahac*.
- candicans*. 2. *P. foliis cordatis ovatis acuminatis obtuse inæqualiter serratis subtus albidis subtriplinerviis reticulato-venosis, petiolis hirsutis, gemmis resinosis, ramis teretibus.—Willd. sp. pl.* 4. *p.* 806.
P. latifolia. Mœnch. method. p. 338.
P. canadensis. Mœnch. weissenst. 81.
Icon. Catesb. car. 1. *t.* 34.
 In New England. $\frac{1}{2}$. March. *v. v.* From forty to fifty feet high; the buds are strongly covered with a balsamic fluid.
- trepida*. 3. *P. foliis suborbiculatis abrupte acuminatis dentatis basi supra biglandulosis glabris, junioribus sericeis.—Willd. sp. pl.* 4. *p.* 803.
P. tremuloides. Mich. fl. amer. 2. *p.* 243.
Icon. Mich. arb. 3. *p.* 285. *t.* 8. *f.* 1. *Duham. arb. ed. nov.* 2. *t.* 53.
 In extensive swamps: Canada to Pennsylvania. $\frac{1}{2}$. April. *v. v.* From twenty to thirty feet high. Generally known by the name of *American Aspen Tree*.
- monilifera*. 4. *P. foliis subcordato-deltoidibus glabris basi glandulosis, serraturis cartilagineis hamatis pilosiusculis, nervis patulis, petiolis superne compressis, ramis adultis teretibus.—Willd. sp. pl.* 4. *p.* 805.
P. glandulosa. Mœnch. method. p. 339.
P. caroliniensis. Mœnch. weissenst. 81.
Icon. Mich. arb. p. 295. *t.* 10. *f.* 2.
 In North America. $\frac{1}{2}$. April. *v. v. in Hortis.* From sixty to seventy feet high. Michaux says that it has

not been observed in any part of North America growing wild.

5. *P. foliis rhomboideis promisse acuminatis circumcirca dentatis glabris, ramulis junioribus pilosis.* *betulifolia.*

P. hudsonica. Mich. arb. 3. p. 293. t. 10. f. 1.

P. nigra. Mich. fl. amer. 2. p. 244.

On the Hudson- or North-river, and about Lake Ontario. $\frac{1}{2}$. March. *v. v.* From thirty to forty feet high; petioles and young branches yellow.

6. *P. foliis subrotundo-ovatis acutis inæqualiter sinuato-grandidentatis glabris, junioribus villosis, petiolis superne compressis.—Mich. fl. amer. 2. p. 243.* *grandidentata.*

In Canada. $\frac{1}{2}$. April. *v. v.* From forty to fifty feet high.

7. *P. foliis subrotundo-ovatis deltoideis acuminatis subcordatis inæqualiter serratis glabris basi glandulosis, petiolis compressis, ramis junioribus angulatis.—Willd. sp. pl. 4. p. 803.* *lævigata.*

P. canadensis. Mich. arb. 3. p. 298. t. 11.

In high rocky situations: Canada to Virginia, and about the Western lakes. $\frac{1}{2}$. March. *v. v.* From seventy to eighty feet high. In Virginia it is called *Cotton Tree*.

8. *P. foliis ovato-deltoideis acuminatis obtuse uncinato-dentatis glabris, junioribus amplissimis cordatis, ramis alato-angulosis.—Willd. sp. pl. 4. p. 805.* *angulata.*

P. heterophylla. Du Roi herb. 2. p. 150.

P. basamifera. Mill. dict. n. 5.

Icon. *Mich. arb. 3. p. 302. t. 12.*

In morasses, on the banks of rivers: Virginia to Florida, and on the Mississippi. $\frac{1}{2}$. April. *v. v.* About eighty feet high; leaves very large; branches brittle. It is known by the name of *Mississippi Cotton Tree*.

9. *P. foliis subrotundo-ovatis sinu parvo cordatis subauriculatis obtusis uncinato-dentatis, junioribus tomentosis.* *heterophylla.*

Willd. sp. pl. 4. p. 806.

Icon. *Mich. arb. 3. p. 290. t. 9. Duham. arb. ed. nov. 2. t. 51.*

In swamps: New York to Carolina, and on the western rivers. $\frac{1}{2}$. May. *v. v.* About seventy or eighty feet high. The leaves are on their base, properly speaking, more auriculated than cordated.

693. MYRICA. *Gen. pl.* 1510.

- Gale.* 1. *M. foliis cuneato-lanceolatis apice serratis obtusis, amentis masculis imbricatis, squamis acuminatis ciliatis, fructibus squamoso-capitatis.*—*Willd. sp. pl.* 4. p. 745. *Icon. Fl. dan.* 327.
In boggy grounds in Canada, and about lakes on high mountains; plentifully on the Broad mountains, Pennsylvania. *h.* May. *v. v.* A low shrub, like all the following, of an agreeable sweet scent.
- cerifera.* 2. *M. foliis cuneato-lanceolatis apice rariter serratis acutis, amentis masculis laxis, squamis acutis, fructibus globosis minoribus.*—*Willd. sp. pl.* 4. p. 745.
Icon. Catesb. car. 1. t. 69. *Pluk. alm. t.* 48. f. 9.
- pumila.* *β. M. foliis lineari-lanceolatis.* *Mich. fl. amer.* 2. p. 228.
In shady dry woods: Virginia to Carolina. *β.* In Carolina and Florida. *h.* May, June. *v. v.* A shrub sometimes more than twelve feet high. The berries of this and the following species produce a white vegetable wax, which the inhabitants manufacture into candles equal to those made of bees-wax.
- caroliniensis.* 3. *M. foliis cuneato-oblongis grosse dentatis, amentis masculis laxis, squamis acutis, baccis globosis majoribus.*—*Willd. sp. pl.* 4. p. 746.
M. cerifera β. Mich. fl. amer. 2. p. 223.
Icon. Catesb. car. 1. p. 13.
In wet places about rivers and swamps: New England to Florida. *h.* May. *v. v.* Not above three or four feet high.
- pennsylvanica.* 4. *M. foliis oblongis utrinque acutiusculis integerrimis aut apice rariter subserratis margine revolutis, amentis masculis laxis, squamis acutis, baccis globosis majusculis.*—*Lam. encycl.* 2. p. 592.
Icon. Duham. arb. ed. nov. 2. t. 55.
In shady rocky situations: New Jersey and Pennsylvania. *h.* May. *v. v.* Not above three feet high. It generally is confounded with the preceding, but is a very distinct species.

694. BETULA. *Gen. pl.* 1419.

- populifolia.* 1. *B. foliis deltoidibus longe acuminatis inæqualiter serratis glaberrimis, strobilorum squamis lobis lateralibus subrotundis, petiolis glabris.* *Willd. sp. pl.* 4. p. 463.

B. acuminata. *Ehrh. Beitr.* 6. p. 98.

B. lenta. *Du Roi herbk.* 1. p. 92. *Wangh. amer.* p. 45.
t. 29. f. 38.

Icon. *Mich. arb.* 2. p. 139. t. 2. *Willd. arb.* t. 2. f. 5.

In barren rocky woods and old fields: Canada to Pennsylvania. ♀. June, July. v. v. From thirty to forty feet high. It is known by the name of *White Birch* or *Old Field Birch*.

2. *B. foliis ovatis acutis serratis, petiolis pubescentibus pedunculo brevioribus, strobilorum squamis lobis lateralibus rotundatis.* *Willd. sp. pl.* 4. p. 463.

excelsa.

B. lutea. *Mich. arb.* 2. p. 152.

Icon. *Mich. l. c. t.* 5. *Willd. arb.* t. 2. f. 2.

In low grounds: province of Maine, Hudson's river. ♀. May, June. v. v. From seventy to eighty feet high; generally called *Yellow Birch*.

3. *B. foliis rhombeo-ovatis duplicato-serratis acutis subtus pubescentibus, basi integris, amentis femineis ovatis, squamis villosis, laciniis linearibus æqualibus.*—*Willd. sp. pl.* 4. p. 464.

nigra.

B. lanulosa. *Mich. fl. amer.* 2. p. 181.

B. rubra. *Mich. arb.* 2. p. 142.

Icon. *Mich. l. c. t.* 3. *Willd. arb.* t. 2. f. 6.

On the banks of rivers: New Jersey to Carolina. ♀. May. v. v. About seventy feet high when full grown; the wood very fine. It is generally called *Red Birch*.

4. *B. foliis ovatis acuminatis duplicato-serratis, venis subtus hirsutis, petiolo glabro, amentis femineis pedunculatis nutantibus, squamis lobis lateralibus brevibus suborbiculatis.*—*Willd. sp. pl.* 4. p. 464.

papyracea.

B. papyrifera. *Mich. fl. amer.* 2. p. 180.

Icon. *Mich. arb.* 2. p. 133. t. 1. *Willd. arb.* t. 2. f. 1.

In the forests of Canada to a great northern latitude, and as far south as the Hudson's river. ♀. May, June. v. v. A large tree, highly useful to the natives for constructing their large portable canoes, from which circumstance it is known by the name of *Canoe Birch*.

5. *B. foliis cordato-ovatis argute serratis acuminatis, nervis subtus petiolisque pilosis, strobilorum squamis glabris, lobis obtusis æqualibus elevato-venosis.*—*Willd. sp. pl.* 4. 464.

lenta.

B. carpinifolia. *Ehrh. Beitr.* 6. p. 99.

B. nigra. *Du Roi herbk.* 1. p. 93. *Wangh. amer.* t. 15. f. 34.

Icon. *Mich. arb.* 2. p. 145. t. 4.

In Canada and throughout the Allegany mountains, to their termination in Georgia. $\frac{1}{2}$. May, June. *v. v.* This elegant and large tree is the most interesting of this genus, on account of the excellence of its wood. It is known by the name of *Mountain Mahogany*, *Black Birch*, *Cherry Birch*, and *Sweet Birch*. This last appellation it has from the sweet scent the branchlets give when bruised.

pumila.

6. *B. ramis pubescentibus impunctatis, foliis orbiculato-obovatis petiolatis subtus dense pubescentibus, amentis femineis cylindricis.*—*Willd. sp. pl.* 4. p. 467.

B. nana. *Kalm itin.* 2. p. 263.

Icon. *Jacq. hort. vind.* t. 122. *Du Roi herbk.* 1. t. 3. *Wangh. amer.* t. 29. f. 61.

In bogs of Canada, and on high mountains of New York and Pennsylvania. $\frac{1}{2}$. May, June. *v. v.* A low shrub, not above two or three feet high.

glandulosa.

7. *B. ramis glanduloso-punctatis glabris, foliis obovatis serratis basi integerrimis glabris subsessilibus, amentis femineis oblongis, squamis semitrifidis, seminibus orbiculatis angusto-marginatis.*—*Willd. sp. pl.* 4. p. 466.

In Canada, about Hudson's Bay, and on the borders of lakes on the high mountains of New Jersey and Pennsylvania. $\frac{1}{2}$. May. *v. v.* A handsome little shrub, not above two feet high.

nana.

8. *B. humillima, glaberrima; foliis orbiculatis crenatis subtus reticulato-venosis, amenti squamis profunde 3-partitis, laciniis oblongis, seminibus orbiculatis subapteris.*—*Willd. sp. pl.* 4. p. 465.

Icon. *Amœn. acad.* 1. t. 1. *Fl. dan.* 91. *Pall. fl. ross.* 1. t. 40. *Amman. act.* 9. t. 14.

In sphagnous swamps about Hudson's Bay and other parts of Canada. $\frac{1}{2}$. April, May. *v. s. in Herb. Lambert.*

695. ALNUS. *Willd. sp. pl.* 4. p. 334.

Betula. *Gen. pl.* 1419.

glutinosa.

1. *A. foliis subrotundo-cuneatis obtusis subretusis glutinosis, axillis venarum subtus villosis.* *Willd. sp. pl.* 4. p. 334.

Betula Alnus. *Sp. pl.* 1394.

Icon. *Engl. bot.* 1508. *Læs. pruss. t.* 1.

On the banks of rivers, in the interior of Canada, and on the north-west coast. $\frac{1}{2}$. April. *v. v.* A large tree, known every where under the name of *Alder*.

2. *A. foliis oblongis acutis basi rotundatis duplicato-serratis, petiolis venisque subtus pilosis, axillis venarum nudis, stipulis ovato-oblongis.*

crispa

A. undulata. *Willd. sp. pl.* 4. p. 336.

Betula Alnus crispa. *Mich. fl. amer.* 2. p. 181.

Betula crispa. *Ait. kew.* 3. p. 339.

In Canada and on high mountains, in sphagnous swamps, of Pennsylvania. $\frac{1}{2}$. April. *v. v.* A shrub not above three or four feet high.

3. *A. foliis obovatis acuminatis venis et axillis venarum subtus pilosis, stipulis ellipticis obtusis.* *Willd. sp. pl.* 4. p. 336.

serrulata.

Betula serrulata. *Ait. kew.* 3. p. 338.

Betula rugosa. *Ehrh. Beitr.* 3. p. 21.

Icon. *Abbot. insect.* 2. t. 92 *Wangh amer.*

In swamps and on river sides. common every where. $\frac{1}{2}$. March. *v. v.* A shrub from six to ten feet high, growing in close thickets.

696. *CARPINUS*. *Gen. pl.* 1449.

1. *C. foliis oblongo-ovatis acuminatis inæqualiter serratis, strobilorum squamis tripartitis, lacinia intermedia obliqua ovato-lanceolata uno latere dentata.*—*Willd. sp. pl.* 4. p. 468.

americana.

C. virginiana. *Mich. arb.* 3. t. 8.

In shady woods and hedges: Canada to Florida. $\frac{1}{2}$. May. *v. v.* This species of *Hornbeam* resembles the European very much, and its wood is of the same qualities: it rises to about fifteen feet high.

697. *OSTRYA*. *Mich. gen.* 223.

1. *O. foliis ovato-oblongis basi subcordatis acuminatis inæqualiter serratis, strobilis oblongo-ovatis erectis, geminis acutis.*—*Willd. sp. pl.* 4. p. 469

virginica.

Carpinus virginiana. *Ait. kew.* 3. p. 363.

Icon. *Abbot. insect.* 2. p. 151. t. 75. *Pluk. alm. t.* 156. f. 1.

In shady woods: New England to Carolina. $\frac{1}{2}$. May.

v. v. A small tree, of exceeding hard and heavy wood, from which it is generally known under the name of *Iron-wood*; in some parts they call it *Lever-wood*. I observed a variety in Pennsylvania, of which the younger branches were covered with glandulous hairs. It is rather singular to observe that the plate in *Mich. arb.* 3. t. 7. intended for the present plant, represents *Ostrya vulgaris* with hanging cones, which is never the case in the American species.

698. FAGUS. *Gen. pl.* 1448.*sylvatica.*

1. *F. foliis ovatis acuminatis leviter dentatis margine ciliatis basi acutis, nucibus ovato-triquetris obtusis cum mucrone.*—*Willd. sp. pl.* 4. p. 459. *Mich. arb.* 2. p. 170.

Icon. *Mich. l. c.* t. 8.

In extensive forests: New Hampshire to Georgia. $\frac{1}{2}$. May. *v. v.* This species of beech forms those extensive and beautiful woods generally known by the name of *Beech-woods*, and always gives the indication of a fertile soil. It is distinguished by the name of *White Beech* from the following.

ferruginea.

2. *F. foliis ovato-oblongis acuminatis subtus pubescentibus grosse dentatis basi obtusis subcordato-inæqualibus, nucibus acute ovato-triquetris acutissimis.*—*Willd. sp. pl.* 4. p. 460.

Icon. *Mich. arb.* 2. p. 174. t. 9. *Abbot. insect.* 2. t. 75.

In rich level lands, at the foot of mountains: Canada to New England. $\frac{1}{2}$. May, June. *v. v.* It is distinguished by the inhabitants by the name of *Red Beech*, the wood being of a darker colour than the preceding. Both species are highly useful timber trees.

699. CASTANEA. *Tournef. inst.* t. 352.*vesca : americana.*

1. *C. foliis lanceolatis acuminatis mucronato-serratis utrinque glabris.*—*Willd. sp. pl.* 4. p. 460.
Fagus Castanea. Hort. cliff. 447.

Icon. *Mich. arb.* 2. p. 156. t. 6.

In the mountainous parts: New England to Carolina. $\frac{1}{2}$. May, June. *v. v.* The *American Chesnut* differs so little from the European, that no specific distinction can be drawn. It is one of the largest and

most useful trees of the forests, the wood being extremely durable, and in high esteem for posts and rails to construct fences. The nuts are very delicious.

2. *C. foliis oblongis acutis mucronato-serratis subtus albotomentosis*.—*Willd. sp. pl.* 4. p. 461.

pumila.

Fagus pumila. Sp. pl. 1418.

Icon. *Mich. arb.* 2. p. 166. t. 7. *Wangh. amer. t.* 19. f. 44. *Abbot. insect. t.* 57. *Catesb. car.* 1. t. 9. *Pluk. alm. t.* 156. f. 2.

In dry barren and sandy fields and woods: New Jersey to Georgia. $\frac{1}{2}$. May, June. *v. v.* This small tree, or rather shrub, grows to the height of thirty feet and upwards in the southern regions, but to the north it seldom exceeds seven or eight feet. The fruit is very sweet and agreeable to eat, and is generally known by the name of *Chinquapin*.

700. QUERCUS. *Gen. pl.* 1446.

- * *Fructificatio biennis; fructibus subsessilibus; foliis setaceo-mucronatis.* (in specie 1. muticis.)

† *Foliis integerrimis.*

1. *Q. foliis deciduis lineari-lanceolatis utrinque attenuatis integerrimis glabris mucronatis, cupula scutellata, glande subrotunda*.—*Willd. sp. pl.* 4. p. 423.

Phellos.

Q. Phellos sylvatica. Mich. querc. n. 7.

Icon. *Mich. l. c. t.* 12. *Mich. arb.* 2. t. 12. *Catesb. car.* 1. t. 16. *Abbot. insect.* 2. t. 91. *Wangh. amer. t.* 5. f. 11. *Pluk. amalth. t.* 441. f. 7.

- β . *Q. foliis brevioribus. Catesb. car.* 1. t. 22. *Wangh. amer. t.* 5. f. 12.

humilis.

In low swampy forests, near the sea-coast: New Jersey to Florida. $\frac{1}{2}$. May. *v. v.* The *Willow Oak* grows to the height of about fifty or sixty feet. The young leaves are dentated. The variety β . is of low straggling growth.

2. *Q. foliis perennantibus coriaceis lanceolatis integerrimis glabris basi attenuatis, apice acutis mucronatis, cupula scutellata, glande subrotunda*.—*Willd. sp. pl.* 4. p. 424.

maritima.

Q. Phellos maritima. Mich. querc. t. 13. f. 1.

On the sea-coast of Virginia and Carolina. $\frac{1}{2}$. May, June. *v. v.* A low shrubby species, from three to eight feet high.

sericea.

3. *Q. foliis deciduis lanceolato-oblongis integerrimis subundatis basi attenuatis obtusis, apice dilatatis acutis subtus sericeis, cupula scutellata, glande subglobosa.*—*Willd. sp. pl.* 4. p. 424.

Q. Phellos pumila. Mich. querc. t. 13. f. 1. ♂ 2.

Q. Phellos sericea. Ait. kew. 3. p. 354. *Abbot. insect.* 2. t. 51.

Q. pumila. Mich. arb. 2. p. 84. t. 15. *Walt. fl. car.* 234.

Near the sea-coast : Carolina to Florida. *h.* May. *v. v.*

The *Running Oak* is perhaps the smallest of all the species, scarcely ever exceeding two feet in height.

myrtifolia.

4. *Q. foliis perennantibus coriaceis oblongis integerrimis glabris utrinque acutis supra nitidis margine revolutis.*—*Willd. sp. pl.* 4. p. 424.

In Carolina. *Willdenow. t.* 4. +. Leaves resemble those of *Myrtus communis* with large leaves ; the fruit is not known.

virens.

5. *Q. foliis perennantibus coriaceis oblongo-ellipticis integerrimis margine revolutis basi obtusis apice acutis muticis subtus stellatim pubescentibus, fructibus pedunculatis, cupula turbinata, squamis abbreviatis, glande oblonga.*—*Willd. sp. pl.* 4. p. 425.

Q. Phellos β. Sp. pl. 1412.

Q. sempervirens Walt. fl. car. 234.

Icon. *Mich. querc. t.* 10. ♂ 11. *Mich. arb. t.* 11. *Catesb. car.* 1. t. 16.

Near the sea-coast : Virginia to Florida and Mississippi.

h. May. *v. v.* The *Live Oak* grows to the height of forty or fifty feet, spreading its branches, when in open places, extremely wide : it yields the finest and most durable ship-timber of any species known ; for which reason it is considered one of the most valuable trees in America.

cinerea.

6. *Q. foliis perennantibus coriaceis lanceolato-oblongis integerrimis margine revolutis basi attenuatis apice obtusiusculis mucronatis subtus stellatim tomentosis, fructibus sessilibus, cupula scutellata, glande subglobosa.*—*Willd. sp. pl.* 4. p. 425.

Q. Phellos β. Ait. kew. 3. p. 354.

Q. humilis. Walt. fl. car. 234.

Icon. *Mich. querc. n.* 8. t. 14. *Mich. arb.* 2. p. 80. t. 14.

In dry barren soil and pine-forests : Virginia to Georgia.

h. May, June. *v. v.* The *Upland Willow Oak* is

very variable in size, sometimes not above four feet, at others nearly twenty feet high. The younger Michaux considers *Q. nana* of Willdenow to be only a variety of the present species; which I very much doubt.

7. *Q. foliis deciduis oblongis utrinque acutis mucronatis integerrimis nitidis subtus pubescentibus, cupula scutellata: squamis lato-ovatis, glande subglobosa.*—*Willd. sp. pl.* 4. p. 428. *imbricaria.*

Icon. *Mich. querc. n.* 9. t. 15. & 16. *Mich. arb.* 2. p. 78. t. 13.

On the banks of rivers, within the Allegany mountains, and in the western countries thereof. h. May, June. v. v. The *Shingle Oak* rises to about forty or fifty feet. The younger Michaux considers the wood of this species of little value.

8. *Q. foliis deciduis obovato-lanceolatis acutis basi attenuatis integerrimis utrinque glabris, cupula scutellata: squamis lanceolatis, glande subovata.*—*Willd. sp. pl.* 4. p. 427. *laurifolia.*

Icon. *Mich. querc. n.* 10. t. 17.

9. *Q. foliis apice obtusis.* *Mich. querc. t.* 18. *obtusa.*

In South Carolina and Georgia. h. May. v. v. The *Laurel Oak*, or as it is sometimes called *Swamp Willow Oak*, is about fifty or sixty feet high: its wood, according to the elder Michaux, is very valuable, and almost preferable to that of *Q. virens*. For what reason the younger Michaux does not mention this species, I cannot tell, unless he considers it only a variety of the preceding; which most certainly is not the case.

†† *Foliis dentatis aut breviter lobatis.*

9. *Q. foliis subrotundo-ovatis subcordatis utrinque glabris remote spinoso-dentatis, cupula hemisphærica: squamis laxis, glande ovata acuta.*—*Willd. sp. pl.* 4. p. 431. *agrifolia.*

Icon. *Pluk. phytogr. t.* 196. f. 3?

On the north-west coast, about Nootka Sound. *Nee.* h. +.

10. *Q. foliis longe petiolatis ovato-lanceolatis oblongisve integris vel inæqualiter grandidentatis, cupula hemisphærica, glande subglobosa.*—*Mich. arb.* 2. p. 87. *heterophylla.*

Icon. *Mich. l. c. t.* 16.

On the banks of the Delaware, Pennsylvania. h. May. v. v. Of this singular species there is but one indivi-

dual known, which grows on the plantation of the Messrs. Bartrams near Philadelphia. It probably is only a hybrid plant on that account, and cannot with propriety be considered a genuine species: but the younger Michaux having given a good figure of it, I insert it here on that account only.

- aquatica*. 11. *Q. foliis obovato-cuneiformibus glabris integerrimis apice obsolete trilobis, lobo intermedio majore, cupula hemisphærica, glande subglobosa.*—*Willd. sp. pl.* 4. p. 441.
Q. nigra. Sp. pl. 1413.
Q. uliginosa. Wagh. amer. t. 6. f. 18.
Icon. Mich. querc. n. 11. t. 19. t. 20. f. 1. 3. 4. 5. & t. 21. *Mich. arb.* 2. p. 89. t. 17.
 In swamps: Maryland to Florida. *h.* May. *v. v.*
 The *Water Oak* is about forty feet high when full grown; its wood is but little valued. Its leaves vary, according to soil and age, *ad infinitum*. There is scarcely one tree found having leaves like the other, and the same tree is almost as variable in its different branches.
- hemisphærica*. 12. *Q. foliis perennantibus oblongo-lanceolatis indivisis trilobis sinuatisque, lobis mucronatis, utrinque glabris.*
Willd. sp. pl. 4. p. 443. *Bartr. itin.* 320.
Icon. Mich. querc. t. 20. f. 2.
 In Georgia and Florida. *h.* May. *v. v. s.* This is probably nothing more than a young plant of *Q. aquatica*, which is so very apt to vary in its foliage.
- nana*. 13. *Q. foliis cuneiformibus glabris apice trilobis basi subsinuatis, lobis divaricatis mucronatis intermedio majore, axillis venarum subtus pubescentibus, cupula scutellata, glande ovato-subglobosa.*—*Willd. sp. pl.* 4. p. 443.
Q. aquatica elongata. Ait. kew. 3. p. 357.
Icon. Abbot. insect. 2. t. 59.
 In pine-barrens of South Carolina. *h.* May. *v. v. s. fr.* A low-growing species, always keeping distinct from *Q. aquatica*.
- triloba*. 14. *Q. foliis oblongis cuneiformibus basi acutis, apice subtrilobis, lobis æqualibus mucronatis, intermedio longiore, subtus tomentosis, cupula scutellata, glande depresso-globosa.*—*Willd. sp. pl.* 4. p. 443.
Q. cuneata. Wagh. amer. p. 78. t. 5. f. 14.
Icon. Mich. querc. n. 14. t. 26. *Abbot. insect.* 1. t. 50?
 In pine-barrens, near the sea-coast: New Jersey to Geor-

gia. h. May. v. v. The *Downy Black Oak* is from twenty to forty feet high, according to Michaux, of very rapid growth, and extremely well calculated for inclosing of lands.

15. *Q. foliis coriaceis cuneiformibus basi subcordatis, apice dilatatis retuso-subtrilobis, junioribus mucronatis, supra glabris, subtus rubiginoso-pulverulentis, cupula turbinata: squamis obtusis scariosis, glande breviovata.*—*Willd. sp. pl.* 4. p. 442.

nigra.

Q. nigra β. *Sp. pl.* 1413.

Q. ferruginea. *Mich. arb.* 2. p. 92.

Icon. *Mich. querc. n.* 12. t. 22. 23. *Mich. arb.* t. 18. *Catesb. car.* 1. t. 19. *Wangh. amer.* t. 5. f. 13. *Abbot. insect.* t. 58.

In barren sandy or gravelly woods: New Jersey to Florida. h. May. v. v. The *Barren Oak* or *Black Jack* of the Virginians is of low growth, especially in the more northern states: it bears very abundantly and furnishes a fine mast for hogs: the wood is small, but excellent for fuel.

16. *Q. foliis obovato-oblongis levissime sinuatis subtus pubescentibus, lobis oblongis obtusis obsolete denticulatis setaceo-mucronatis, cupula scutellata, glande depresso-globosa.*—*Willd. sp. pl.* 4. p. 444.

tinctoria.

Q. tinctoria angulosa. *Mich. querc. n.* 13. t. 24.

Q. discolor. *Willd. nov. act. soc. nat. sc. ut. berol.* 3. p. 399.

Q. velutina. *Lam. encycl.* 1. p. 173

In all large woods, particularly in the mountainous parts: New England to Georgia. h. May. v. v. The *Black Oak*, or *Quercitron*, is one of the largest trees of the American forest, and highly valuable on account of its timber as well as its bark, which is so very superior in tanning to any other species of oak.

17. *Q. foliis oblongis pinnatifido-sinuatis subtus pubescentibus, lobis oblongis dentatis setaceo-mucronatis, cupula turbinata, glande ovata.*—*Willd. sp. pl.* 4. p. 444.

discolor.

Q. tinctoria sinuosa. *Mich. querc. n.* 13. t. 25.

Icon. *Abbot. insect.* 2. p. 111. ♂ 56. *Pluk. alm.* t. 54. f. 5.

In large forests: Pennsylvania to Carolina. h. May. v. v. Resembles the preceding, and likewise *Q. coccinea*. The young expanding leaves are covered with

a white down on both sides, which is not the case with either *Q. rubra* or *Q. coccinea*. Whether the figure of *Q. tinctoria* Mich. arb. 2. t. 22. belongs to this or the preceding species, I have not been able to decide.

††† *Foliis profunde sinuatis lobatisque.*

- coccinea.* 18. *Q. foliis longe petiolatis oblongis profunde sinuatis glabris, lobis divaricatis dentatis acutis setaceo-mucronatis, cupula turbinata insigniter squamosa, glande breviovata.*—*Willd. sp. pl.* 4. p. 446.
Icon. *Mich. querc. n.* 18. t. 31. 32. *Mich. arb.* 2. p. 116. t. 23. *Wangh. amer. t.* 4. f. 9.
In fertile woods: New England to Georgia. ♀. May. v. v. The *Scarlet Oak* is a very large tree, and changes its leaves in autumn to a bright red, which give the woods a very picturesque appearance.
- ambigua.* 19. *Q. foliis sinuatis glabris basi acutis, sinubus subacutis, cupula subscutellata, glande turgide ovata.*—*Mich. arb.* 2. p. 120.
Icon. *Mich. l. c. t.* 24.
On Hudson's Bay and in Nova Scotia. *Michaux.* ♀. May. +. This is an intermediate species, between the preceding and following one, and probably only a hybrid plant. Michaux calls it *Gray Oak*.
- rubra.* 20. *Q. foliis longe petiolatis oblongis glabris obtuse sinuatis, lobis acutiusculis dentatis setaceo-mucronatis, cupula scutellata sublævi, glande subovata turgida.*—*Willd. sp. pl.* 4. p. 445.
Icon. *Mich. querc. n.* 20. t. 35. 36. *Mich. arb.* 2. p. 126. t. 26. *Wangh. amer. t.* 3. f. 7. *Pluk. alm. t.* 54. f. 4. *Du Roi herb. t.* 5. f. 2.
In fertile forests: Canada to Pennsylvania, and in the Alleghany mountains. ♀. May. v. v. This large and fine timber tree is exclusively known by the name of *Red Oak*, which name is likewise applied to *Q. tinctoria*, *coccinea*, *falcata*, *palustris*, *phellos*, *ambigua*, and *aquatica*, in several parts of America.
- Catesbæi.* 21. *Q. foliis brevissime petiolatis basi cuneatis oblongis profunde sinuatis glabris, lobis tribus quinisque divaricatis dentatis acutis setaceo-mucronatis, cupula turbinata ampla: squamis obtusis marginalibus introflexis, glande subglobosa.*—*Willd. sp. pl.* 4. p. 446.
Icon. *Mich. querc. n.* 17. t. 29. 30. *Mich. arb.* 2. p. 101. t. 20. *Catesb. car.* 1. t. 23.

In pine-barrens: Carolina and Georgia. $\frac{1}{2}$. May. *v. v.*
The *Barren Scrub Oak* is of shrubby growth, not above fifteen feet high, and occurs in the most sterile soil of those countries in great abundance.

22. *Q. foliis longe petiolatis basi obtusis subtus tomentosis trilobis sinuatisve, lobis subfalcatis setaceo-mucronatis, terminali elongato, cupula crateriformi, glande globosa.*—*Mich. fl. amer. 2. p. 199.*

falcata.

Q. elongata. Willd. sp. pl. 4. p. 444.

Icon. *Mich. querc. n. 16. t. 28. Mich. arb. 2. p. 101. t. 21.*

In sandy soil, near the sea-coast: New Jersey to Georgia. $\frac{1}{2}$. May. *v. v.* A very large tree, commonly called *Spanish Oak*. In the southern states it is known by the name of *Red Oak*.

23. *Q. foliis longe petiolatis oblongis profunde sinuatis glabris, axillis venarum subtus villosis, lobis divaricatis dentatis acutis setaceo-mucronatis, cupula scutellata lævi, glande subglobosa.*—*Willd. sp. pl. 4. p. 446.*

palustris,

Icon. *Mich. querc. n. 19. t. 33. 34. Mich. arb. 2. p. 123. t. 25. Du Roi hark. 2. t. 5. f. 4. Wagh. amer. t. 5. f. 10.*

In low swampy woods: New England to Pennsylvania, and in Illinois. $\frac{1}{2}$. May. *v. v.* The *Swamp Spanish Oak* or *Pin Oak* is a large tree; leaves rather small and handsomely divided; the acorns small, and generally in great abundance.

24. *Q. foliis longe petiolatis obovato-cuneiformibus tri-quinquelobisve margine integerrimis subtus cinereo-tomentosis, lobis setaceo-mucronatis, cupula subturbinata, glande subglobosa.*—*Mich. fl. amer. 2. p. 199.*

Banisteri.

Q. ilicifolia. Willd. sp. pl. 4. p. 447. Wagh. amer. 79. t. 6. f. 17.

Icon. *Mich. querc. n. 15. t. 27. Mich. arb. 2. p. 96. t. 19. Abbot. insect. 2. t. 79?*

In dry barren fields and on the mountains: New Jersey to Virginia. $\frac{1}{2}$. May. *v. v.* This shrub, about four or six feet high, covers large tracts of ground wherever it occurs, called *Oak-barrens*: it is known by the name of *Bear Oak*, *Black Scrub Oak*, and *Dwarf Red Oak*.

** *Fructificatio annua ; fructibus pedunculatis ; foliis muticis.*

† *Foliis lobatis.*

- obtusiloba.* 25. *Q. foliis oblongis sinuatis basi cuneatis subtus pubescentibus, lobis obtusis superioribus dilatatis bilobis, cupula hemisphærica, glande ovali.*—*Mich. fl. amer.* 2. p. 194.
Q. stellata. *Willd. sp. pl.* 4. p. 452. *Wangh. amer.* 78. t. 6. f. 15.
 Icon. *Mich. querc. n.* 1. t. 1. *Mich. arb.* 2. t. 4.
 In most forests: Canada to Florida. *h.* May. *v. v.*
 The *Upland White Oak* or *Iron Oak* is a spreading tree about fifty or sixty feet high; its timber is of great value in ship-building.
- macrocarpa.* 26. *Q. foliis subtus tomentosis profunde lyratim sinuato-lobatis, lobis obtusis repandis, superioribus dilatatis, cupula craterata; squamis superioribus setosis, glande turgide ovata.*—*Willd. sp. pl.* 4. p. 453.
 Icon. *Mich. querc. n.* 2. t. 2. & 3. *Mich. arb.* 2. t. 3.
 Within the mountains, on dry slate or lime-stone hills: Kentucky, Tennessee, Illinois, Mississippi, and Missouri. *h.* May. *v. v.* A large tree, called *Overcup White Oak* by the inhabitants; the fruit is the largest of the American species; the wood very excellent.
- oliveformis.* 27. *Q. foliis oblongis glabris subtus glaucis profunde inæqualiter sinuato-pinnatifidis, fructu elliptico-ovato, cupula profunde craterata superne crinita, glande elliptico-ovali.*—*Mich. arb.* 2. p. 32.
 Icon. *Mich. arb.* 2. t. 2.
 On the banks of Hudson's river and the western parts of New York. *Michaux* In Pennsylvania and Virginia, on iron-ore hills. *Ph. h.* May. *v. v.* The *Mossy-cup Oak* is a large tree; the foliage handsome, and somewhat resembling the preceding species.
- lyrata.* 28. *Q. foliis brevissime petiolatis glabris lyrato-sinuatis summitate dilatatis, lobis oblongis acutis superioribus angulato-truncatis, cupula depresso-globosa tuberculoso-muricata glande globosa subsecta.*—*Willd. sp. pl.* 4. p. 453. *Walt. fl. car.* 235.
 Icon. *Mich. querc. n.* 3. t. 4. *Mich. arb.* 2. p. 42. t. 5.
 In swamps: Carolina to Florida, and on the Mississippi. *h.* May. *v. s.* This oak is from eight to fifteen feet

high, and known under the names *Over-cup Oak*, *Swamp-post Oak*, and *Water White Oak*. The fruit is almost entirely covered with the cupula or calyx.

29. *Q. foliis oblongis pinnatifido-sinuatis subtus pubescentibus, lobis lineari-lanceolatis obtusis integerrimis basi attenuatis, fructibus pedunculatis, cupula subcraterata tuberculosa, basi plana, glande ovata.*—*Willd. sp. pl.* 4. p. 449. *alba.*

Icon. *Mich. querc. n.* 4. t. 5. *Mich. arb.* 2. p. 13. t. 1. *Du Roi herb.* 2. t. 5. f. 5. *Wangh. amer. t.* 3. f. 6. *Catesb. car.* 1. t. 21. f. 2.

- β. *Q. foliis levissime lobatis utrinque viridibus.* *Mich. l. c.* t. 5. f. 2. *repanda.*

In fertile forests: New England to Carolina. β. Pennsylvania and Carolina. ♀. May. v. v. The *White Oak* is one of the most abundant and useful of this genus in America; it grows in the middle states to an immense size.

†† *Foliis integris, dentatis.*

30. *Q. foliis longe petiolatis obovatis acutis subtus pubescentibus grosse dentatis, dentibus subæqualibus dilatatis apice callosis, cupula craterata basi attenuata, glande ovata.*—*Willd. sp. pl.* 4. p. 439. *Prinus.*

Q. Prinus palustris. *Mich. fl. amer.* 2. p. 196.

Icon. *Mich. querc. n.* 5. t. 6. *Mich. arb.* 2. t. 7. *Du Roi herb.* 2. t. 6. f. 3. *Wangh. amer. t.* 4. f. 8. *Catesb. car.* 1. t. 18. *Pluk. alm. t.* 54. f. 3.

In low shady woods and on the banks of rivers: Pennsylvania to Florida. ♀. May. v. v. This large and useful tree is known by the name of *Chesnut White Oak*, *Swamp Chesnut Oak*, and, to the south, *White Oak*. The fruit is large, and of a sweet taste.

31. *Q. foliis brevi-petiolatis oblongo-obovatis subtus albotomentosis grosse dentatis basi integerrimis, dentibus inæqualibus dilatatis acutiusculis apice callosis, fructibus geminis longe pedunculatis, pedunculo in setam terminante, cupula hemisphærica, glande oblongo-ovata.*—*Willd. sp. pl.* 4. p. 440. *bicolor.*

Q. Prinus tomentosa. *Mich. querc. n.* 5. t. 9. f. 2.

Q. Prinus discolor. *Mich. arb.* 2. p. 46. t. 6.

In low wet woods: Pennsylvania to Carolina. ♀. May. v. v. The *Swamp White Oak* grows to a very large tree; the acorn, as of most of the chesnut oaks, is sweet.

- montana.* 52. *Q. foliis modice petiolatis lato-obovatis oblongis subtus albo-tomentosis supra nitidis grosse dentatis basi obtusis inæqualibus, dentibus subæqualibus obtusissimis brevibus, fructibus geminis brevi-pedunculatis, cupula hemisphærica, squamis tuberculatis rugosis, glande ovata.*—*Willd. sp. pl.* 4. p. 440.
Q. Prinus monticola. Mich. fl. amer. 2. p. 196.
Icon. Mich. querc. n. 5. t. 7. *Mich. arb.* 2. t. 8. *Abbot. insect.* 2. t. 82.
 In rocky situations on the mountains: New England to Carolina. *h.* May. *v. v.* The *Rock Chesnut Oak* rises to about sixty feet; its timber is in high value, and its bark tans extremely well.
- Castanea.* 33. *Q. foliis longe petiolatis oblongo lanceolatis basi obtusis acuminatis subtus tomentosis grosse dentatis, dentibus subæqualibus dilatatis acutis apice callosis, cupula hemisphærica, glande ovato-subglobosa.*—*Willd. sp. pl.* 4. p. 441.
Q. Prinus acuminata. Mich. fl. amer. 2. p. 196.
Icon. Mich. querc. n. 5. t. 8. *Mich. arb.* 2. p. 61. t. 9.
 In the Allegany mountains and on the banks of the Delaware. *h.* May. *v. v.* The *Yellow Oak* is a beautiful and large tree; the acorns are eatable.
- Chinquapin.* 34. *Q. foliis brevi-petiolatis obovatis basi acutis grosse dentatis subtus glaucis, dentibus subæqualibus dilatatis apice callosis, cupula hemisphærica, glande ovata.*
Q. Prinus Chinquapin. Mich. arb. 2. p. 65.
Q. prinoides. Willd. sp. pl. 4. p. 440.
Icon. Mich. querc. n. 5. t. 9. f. 1. *Mich. arb.* 2. t. 10. tona.
 On dry mountain lands: Pennsylvania to Carolina. *h.* May. *v. v.* The *Chinquapin* or *Dwarf Chesnut Oak* is a low-growing shrub, not exceeding three or four feet in height; it is highly ornamental when in full bloom.

701. CORYLUS. *Gen. pl.* 1450.

- americana.* 1. *C. foliis subrotundis cordatis acuminatis, calycibus fructus subrotundo-campanulatis nuce subglobosa majoribus, limbo dilatato dentato-serrato.*—*Willd. sp. pl.* 4. p. 471.
Icon. Wagh. amer. t. 29. f. 63.
 In low shady woods: Canada to Florida. *h.* March, April. *v. v.* The *Hazel Nut* or *Wild Filbert* is a shrub from four to eight feet high; the nuts very fine.

2. *C. foliis oblongo-ovatis acuminatis, stipulis lineari-lanceolatis, calycibus fructus campanulato-tubulosis nuce majoribus bipartitis, laciniis inciso-dentatis. Willd. sp. pl. 4 p. 471.*

Icon. *Willd. arb. t. 1. f. 2.*

In the mountains: Canada to Carolina. $\frac{1}{2}$. April. *v. v.*

This species is not above four or five feet high.

rostrata.

702. LIQUIDAMBAR. *Gen. pl. 1452.*

1. *L. foliis palmatis, lobis acuminatis, serratis, sinibus bases venarum villosis.—Willd. sp. pl. 4. p. 475.*

Icon. *Mich. arb. 3. p. 194. t. 4.*

In low woods, on fertile soil: New England to Florida, and in all the western countries. $\frac{1}{2}$. May. *v. v.* The *Sweet-gum Tree* is sometimes found of an immense size, particularly in the southern states; its wood is of an exquisite hard texture and fine grain, and furniture made of it has a very handsome appearance.

styraciflua.

703. COMPTONIA. *Gen. pl. 1764.*

1. *C. foliis longo-linearibus alternatim crenato-pinnatifidis.—Willd. sp. pl. 4 p. 320.*

Liquidambar peregrinum. Syst. veg. 860.

Liquidambar asplenifolium. Sp. pl. 1418.

Icon. *Pluk. alm. t. 100. f. 6.*

In sandy, stony, or slaty woods: New England to Virginia. $\frac{1}{2}$. March, April. *v. v.* The *Sweet-fern Bush* rises to about three or four feet high; the whole of the plant when rubbed has a strong resinous scent.

asplenifolia.

704. PLATANUS. *Gen. pl. 1451.*

1. *P. foliis quinquangularibus obsolete lobatis dentatis, ramulis albertibus.—Willd. sp. pl. 4. p. 474.*

Icon. *Catesb. car. 1. t. 56. Duham. arb. t. 35. Mich. arb. 3. t. 3.*

On the banks of rivers: Canada to Florida, and in Louisiana. $\frac{1}{2}$. May. *v. v.* This tree is known by the name of *Button-wood*, *Water Beech*, *Sycamore* and *Plane Tree*; in Canada *Cotton Tree*. It is perhaps the largest tree in North America: on the fertile banks of the Ohio and the Mississippi there are trees measuring from ten to sixteen feet in diameter.

occidentalis.

705. JUGLANS. *Gen. pl.* 1446.* *Amentis masculis simplicibus, polyandris*: Walnuts.*nigra.*

1. *J. foliolis numerosis ovato-lanceolatis serratis subcordatis superne angustatis, subtus petiolisque subpubescentibus, fructibus globosis scabro punctatis, nuce corrugata.*—*Willd. sp. pl.* 4. p. 456.

Icon. *Mich. arb.* 1. p. 157. t. 1. *Jacq. ic. rar.* 1. t. 191. *Wangh. amer. t.* 8 f. 20. *Catesb. car.* 1. t. 67.

In fertile woods: New England to Florida. $\frac{1}{2}$. April, May. *v. v.* The *Black Walnut* is, like all the following, a tree of large size, and its nuts are eaten by men and several species of animals. The wood is put to various mechanical and economical uses; for which information I refer to the different authors on forest trees, but particularly to the works of the younger Michaux.

cinerea.

2. *J. foliolis numerosis lanceolatis serratis basi rotundatis subtus pubescenti-mollibus, petiolis villosis, fructibus oblongo-ovatis apice mammosis viscidis longe pedunculatis, nuce oblonga acuminata insigniter insculpto-scabrosa.*—*Willd. sp. pl.* 4. p. 456.

J. cathartica. *Mich. arb.* 1. p. 165.

J. oblonga. *Mill. dict. n.* 3. *Retz. obs.* 1. p. 10.

Icon. *Mich. arb.* 1. t. 2. *Jacq. ic. rar.* 1. t. 192. *Wangh. amer. t.* 9. f. 21.

Near the sea-coast: Canada to Virginia, and on the Alleghany mountains. $\frac{1}{2}$. April, May. *v. v.* It is known under the name of *Butter Nut*, *Oil Nut*, and *White Walnut*. The younger Michaux has altered the adopted name, and substituted one indicating the medicinal use made of it, which certainly would be a very good name if the old one had not been so long established.

** *Amentis masculis compositis, tetrandris*. Hickory.*olivæformis.*

3. *J. foliolis numerosis (13—15) lanceolatis subfalcatis serratis, impari petiolato, fructibus oblongis tetragonis, nuce olivæformi lævi.*—*Willd. sp. pl.* 4. p. 457.

J. angustifolia. *Ait kew.* 3. p. 361.

J. Pecan. *Muhl. in nov. act. soc. nat. scrut. berol.* 3. p. 392.

Icon. *Mich. arb.* 1. t. 3.

On the banks of the Ohio, Mississippi, and other rivers

in Upper Louisiana. ♀. April, May. *v. v.* It is generally known under the name of *Pecan* or *Illinois Nut*; the fruit is small, with a very thin shell, and a delicious kernel.

4. *J. foliolis subnoventis obovato-lanceolatis acuminatis serratis subtus pubescentibus, impari subsessili basi attenuato, fructibus subrotundis 4-carinatis, nuce subglobosa leviter compressa lævi longe mucronata.*—*Willd. sp. pl.* 4. *p.* 457.

sulcata.

- J. mucronata. Mich. fl. amer.* 2. *p.* 192.

J. laciniosa, Mich. arb. 1. *p.* 199.

Icon *Mich. arb.* 1. *t.* 8.

In fertile valleys of the Allegany mountains. ♀. April, May. *v. v.* It is called *Thick Shell-bark Hickory*, *Springfield* or *Glocester Nut*. The nuts are large and fine-tasted; the bark is torn lengthways in long loose fragments, as in the following species.

5. *J. foliolis subseptenis longe petiolatis oblongo-lanceolatis acuminatis argute serratis, subtus villosis, impari sessili, amentis filiformibus glabris, fructibus depresso-globosis, nuce compressa obliqua.*—*Mich. fl. amer.* 2. *p.* 193. *Sp. pl.* 1415.

alba.

J. compressa. Willd. sp. pl. 4. *p.* 458. *Muhl. in nov. art. soc. nat. scrut. berol.* 3. *p.* 390.

J. squamosa. Mich. arb. 1. *p.* 190.

Icon. *Mich. arb.* 1. *t.* 7. *Pluk. alm.* *t.* 309. *f.* 2. *Gært. carp.* 2. *t.* 89. *sub J. compressa. Catesb. car.* 1. *t.* 38.

In shady fertile forests: New England to Carolina, and throughout the Allegany mountains. ♀. April, May. *v. v.* This useful tree is known by the name of *Shell-bark Hickory*, *Shag-bark* and *Scaly-bark Hickory*, on account of its bark, which is torn in loose fragments like the preceding: its nuts are white, with a thin shell and very sweet and large kernel.

6. *J. foliolis subnoventis oblongo-lanceolatis acuminatis leviter serratis subtus pubescentibus scabris, impari subpetiolato, amentis filiformibus longissimis tomentosis, fructibus subglobosis lævibus, pericarpio crassissimo, nuce subsexangulata putamine crassa durissima.*—*Mich. fl. amer.* 2. *p.* 197.

tomentosa.

J. alba. Willd. sp. pl. 4. *p.* 457.

Icon. *Mich. arb.* 1. *p.* 186. *t.* 6.

In fertile forests: New England to Virginia, and on the Allegany mountains. ♀. April, May. *v. v.* This

is known under the name of *Mocker Nut*, *White-heart Hickory* or *Common Hickory*. The wood is excellent for mechanical purposes, and particularly esteemed as fire-wood; but the nuts are very hard, with but little kernel in them.

- amara*. 7. *J. foliolis subnovenis ovato-oblongis acuminatis argute serratis utrinque glabris, impari breviter petiolato, fructibus subglobosis, superne suturis prominulis, nuce lævi subglobosa mucronata, putamine fragili.*—*Mich. arb.* 1. p. 177.
In dry fertile woods: New England to Maryland, and on the mountains. *h.* May. *v. v.* This is known by the name of *Bitter Nut*, *White* or *Swamp Hickory*. The nuts are small, the kernel bitter.
- porcina*. 8. *J. foliolis subseptenis lanceolatis acuminatis serratis utrinque glabris, impari subsessili, fructibus pyriformibus vel globosis, nuce lævi durissima.*—*Mich. arb.* 1. p. 206.
α. J. fructu globoso, nuce obcordata —*Mich. arb.* 1. p. 206. *t. 9. f. 3. & 4.*
J. obcordata. Willd. sp. pl. 4. p. 458.
- obcordata*. *β. J. fructu turbinato, nuce oblonga.*—*Mich. arb.* 1. p. 209. *t. 9. f. 1. & 2.*
J. glabra. Willd. sp. pl. 4. p. 458.
In dry fertile forests: New England to Virginia. *h.* May. *v. v.* It is known by the name of *Pig* or *Hog Nut*, also *Broom Hickory*. The natives and inhabitants make brooms of it by slitting the very tough wood into narrow slips, which finally form a very good and durable broom. The nuts are very small and extremely hard.
- aquatica*. 9. *J. foliolis subundenis angusto-lanceolatis acuminatis subserratis sessilibus, impari breviter pedicellato, fructibus pedunculatis ovatis suturis 4. prominulis, nuce subdepressa rubiginosa tenera.*—*Mich. arb.* 1. p. 182.
Icon. *Mich. arb.* 1. *t. 5.*
In swamps and rice-fields: South Carolina and Georgia. *h.* May. *v. s.* Michaux calls it *Water Bitter-nut Hickory*. The fruit is extremely bitter.
- myristicæformis*. 10. *J. foliolis quinis ovato-lanceolatis acuminatis serratis glabris, impari subsessili, fructibus ovalibus rugoso-scarbis, nuce ovali brevi-acuminata sulcato-lineata durissima.*—*Mich. arb.* 1. p. 211.
Icon. *Mich. arb.* 1. *t. 10.*

In South Carolina. *Michaux.* h. +. The *Nutmeg Hickory* is but little known; the nuts are very hard, and brown with white lines.

706. MORUS. *Gen. pl.* 1424.

1. *M. foliis cordatis ovatis acuminatis trilobisve, æqualiter serratis scabris, subtus pubescentibus, amentis femineis cylindricis.*—*Willd. sp. pl.* 4. p. 369.

rubra.

Icon. *Mich. arb.* 3. p. 232. t. 10. *Wangh. amer. t.* 15. f. 35. *Pluk. alm. t.* 246. f. 4.

In fertile valleys throughout the middle States. h. June. v. v. The *Red Mulberry* is a very handsome tree, and the wood useful and very durable.

III. CONIFERÆ.

707. PINUS. *Gen. pl.* 1451.

* *Foliis solitariis, basi distinctis.* Abies.

1. *P. foliis solitariis planis emarginatis integrisve subtus glaucis subpectinatis supra suberectis recurvato-patentibus, conis cylindræis erectis, bracteolis abbreviatis obovatis longe mucronatis subserrulatis.*—*Willd. sp. pl.* 4. p. 504.

Balsamæ.

Abies balsamifera. Mich. fl. amer. 2. p. 207.

Icon. *Lambert. monogr.* p. 48. t. 31. *Mich. arb.* 3. t. 14.

In Canada, Nova Scotia, New England, and on the Alleghany mountains, in high and cold situations. h. May. v. v. This elegant tree is known by the name of *Balsam of Gilead Fir*, *Fir Balsam*, and *American Silver Fir*. It grows to the height of about forty or fifty feet.

2. *P. foliis solitariis planis brevioribus emarginatis subtus glaucis subsecundis supra crebris erectis, conis ovato-oblongis erectis, bracteolis elongatis reflexis oblongo-cuneatis emarginatis brevi-mucronatis inciso-denticulatis.*

Fraseri.

On high mountains of Carolina. *Fraser.* On the Broad-mountains, Pennsylvania. *Ph.* h. May. v. v.; v. s. in *Herb. Lambert.* This species, known among the inhabitants by the name of *Double-balsam Fir*, re-

resembles the preceding in several respects, but differs at first sight in being a smaller tree, the leaves shorter and more erect, and the cones not one fourth the size. Messrs. Frasers introduced this tree into England a few years ago.

taxifolia.

3. *P. foliis solitariis planis subdistichis, conis oblongis, antheris didymis* — *Lambert. monogr. p. 51. t. 33.*

On the banks of the Columbia. *M. Lewis.* On the north-west coast. *Menzies. h. v. s. in Herb. Lewis.* This elegant and tall tree has some resemblance to the following one, but the leaves are more than twice the length. I have among my specimens two varieties, or probably distinct species, which for want of fructification I cannot decide: one has acute leaves, green on both sides; the other emarginate leaves, glaucous underneath.

canadensis.

4. *P. foliis solitariis planis denticulatis subdistichis, strobilis ovatis terminalibus vix folio longioribus.* *Lambert. monogr. p. 50. t. 32.*

P. americana. Du Roi herb. 2. p. 107.

Icon. *Lambert. l. c. Mich. arb. 1. p. 137. t. 13. Wagh. amer. t. 15. f. 36.*

In the most northern regions of Canada and on the highest mountains, as far south as Carolina. *h. May. v. v.* The *Hemlock Spruce* is a very elegant tree, and grows in some situations to an enormous size; its bark is a fine substitute for oak-bark in tanning.

nigra.

5. *P. foliis solitariis tetragonis undique sparsis erectis strictis strobilis ovatis, squamis ellipticis margine undulatis apice crosso-denticulatis.* — *Lambert. monogr. p. 41. t. 27.*

P. mariana. Du Roi herb. 2. p. 107.

P. denticulata. Mich. fl. amer. 2. p. 206.

Icon. *Lambert. l. c. Mich. arb. 1. t. 11. Mill. ic. 1. t. 1.*

From the more northern parts of Canada to Carolina, throughout the tracts of high mountains. *h. May. v. v.* The *Black Spruce* or *Double Spruce* is, besides its great mechanical use, the tree of which that wholesome beverage call'd *Spruce Beer* is made.

rubra.

6. *P. foliis solitariis subulatis, strobilis oblongis obtusis, squamis rotundatis subbilobis margine integris.* *Lambert. monogr. p. 43. t. 28.*

Abies pectinata. Lamarch. encycl. 6. t. 523.

Icon. *Lambert. l. c.*

In Nova Scotia and about Hudson's Bay. $\frac{1}{2}$. May. *v. s.*

This species of *Spruce Fir* is nearly related to the preceding. It is, as yet, a very scarce tree in the gardens.

7. *P. foliis solitariis tetragonis incurvis, strobilis subcylindricis laxis, squamis obovatis integerrimis.* *Lambert. monogr. p. 39. t. 26.*

P. laxa. Ehrh. Beitr. 3. p. 24.

P. canadensis. Du Roi herb. 2. t. 124.

Icon. *Lambert. l. c. Mich. arb. 1. t. 12. Wagh. amer. 5. t. 1. f. 2.*

In similar situations with *P. nigra.* $\frac{1}{2}$. May. *v. v.*

The *White Spruce* is of lower growth than the *Black Spruce*, its wood not so good as that, and its branches unfit for making spruce beer.

**** *Foliis pluribus, basi vaginatis.* Pinus.**

8. *P. foliis brevibus geminis, strobilis recurvis oblongo-conicis longitudine foliorum, aculeis squamarum subulatis rectis.*—*Lambert. monogr. p. 18. t. 13.*

P. virginiana. Du Roi herb. 2. p. 35.

Icon. *Lambert. l. c. Mich. arb. 1. t. 4.*

In dry barren soil : New Jersey to Carolina. $\frac{1}{2}$. May.

v. v. The *Jersey Pine, Pitch* or *Scrub Pine*, is of middle size, straggling growth, and full of resin. Its branches are tougher than any other pine I know, and might be used for several useful purposes if its wood was not so apt to an early decay. A. B. Lambert, Esq. in his magnificent Monograph on this interesting and useful genus, made similar observations, which the younger Michaux in his *Arbres forestiers*, p. 60. has taken up as a point of criticism. On this subject Mr. Lambert favoured me with his observations respecting this and some other remarks made by Mr. Michaux, which I think proper here to insert ; it is in the following words : " The criticisms made by Mr. Michaux on my ' Description of the genus Pinus ' are so inaccurate, that I did not think them worth my notice before, nor should I now, were it not to prevent Mr. Pursh from being misled by them, though I believe he is already well aware of their fallacy ; I shall therefore beg of him to insert a few observations on the different subjects to which they respectively belong, if they meet with his approbation and con-

alba.

inops.

currence. Whether Mr. Michaux has been successful in changing the specific names of the pines, I shall leave to future botanists to decide: but I must correct him in respect to the *specific name* he has added to my own, which certainly does not belong to it." The observation which Mr. Lambert makes in this place is, "Michaux's observations relative to the branches of *P. inops* being not fit for hoops appear to be mere matter of opinion, as well as mine, without experience."

resinosa.

9. *P. foliis elongatis geminatis, vaginis elongatis, strobilis ovato-conicis basi rotundatis subsolitariis folio dimidio brevioribus, squamis medio dilatatis mernibus.*—*Lambert. monogr. p. 20. t. 14.*

P. rubra. Mich. arb. p. 45. t. 1.

In Canada and the western parts of New York. *h. v. v.* This tree, called by Aiton *Pitch Pine*, is generally known in its native country by the name of *Norway Pine*; sometimes, particularly among the Canadian French, *Red Pine*. It grows in close forests, is very tall, and its bark is remarkably smooth and red; the timber is very heavy, for which reason it is rejected for masts, though its size and shape are apparently very recommendable for that purpose. Mr. Lambert in his note, quoted above, observes, "In confirmation of what I have said relative to the timber of *P. resinosa*, Mr. Michaux mentions the exportation of it being much diminished, as it has been found to contain too much sap; but he still thinks, from some planks he has seen, it is without foundation."

Banksiana.

10. *P. foliis brevibus geminatis rigidis divaricatis obliquis, strobilis recurvis tortis, squamis inernibus.*—*Lambert. monogr. p. 7. t. 3.*

P. rupestris. Mich. arb. 1. p. 49. t. 2.

P. hudsonia. Lam. encycl. 5. p. 339.

P. sylvestris ♂. *divaricata. Ait. kew. 3. p. 366.*

In cold barren and rocky situations: Nova Scotia, Hudson's Bay, parts of Canada and Province of Maine. *h. April, May. v. v.* The *Scrub Pine*, or, as Michaux calls it, the *Gray Pine*, is a small straggling tree, which in some instances, when growing among the barren rocks, does not rise above five or eight feet high, though it will grow to a considerable size when, by accident or culture, it is brought on good soil. Mr. Lambert observes in his note, "that the trees of this

species now in England exude a great quantity of resin from their branches."

11. *P. foliis elongatis binis ternatisque tenuibus canaliculatis, strobilis ovato-conicis subsolitariis, squamarum aculeis incurvis.*—*Lambert. monogr. p. 22. t. 15.*

variabilis.

P. mitis. Mich. arb. 1. p. 52. t. 3.

In most pine-forests: New England to Georgia. *h.* May. *v. v.* The *Yellow Pine* is the most in use for building of houses as well as shipping. Mr. Lambert's note on this species says, "The height and size of *P. variabilis* I have taken from Wangenheim, who saw it growing in America, and see no reason for doubting his authority."

12. *P. foliis ternis, vaginis abbreviatis, amentis masculis erecto-incumbentibus, strobilis ovatis sparsis vel aggregatis, squamarum spinis reflexis.*—*Lambert. monogr. p. 25. t. 18. 19.*

rigida.

Icon. *Lambert. l. c. Mich. arb. 1. p. 89. t. 8.*

On the plains: New England to Virginia. *h.* May. *v. v.* The common *Black or Pitch Pine* grows in favourable situations to a very large tree; it is found promiscuously in dry soil and very wet low grounds. Mr. Lambert says that his observations on this species were taken from Wangenheim.

13. *P. foliis elongatis ternis, amentis masculis erecto-incumbentibus, strobilis ovatis, squamarum aculeis rectis tenuissimis.*—*Mich. fl. amer. 2. p. 205.*

serotina.

P. Tæda alopecuroides. Ait. hew. 3. t. 368.

Icon. *Mich. arb. 1. p. 86. t. 7. Lambert. monogr. t. 19. f. 5.*

On the edges of ponds and swamps: New Jersey to Carolina. *h.* May. *v. v.* This and the preceding species ripen their seeds only after the second year. I strongly suspect them to be only varieties; and if it had not been introduced as a species by a very good figure of Michaux's, I should have only given it as such.

14. *P. foliis geminis brevibus acutis, strobilis ovato-conicis, aculeis squamarum elongatis subulatis incurvis, inferioribus reflexis.*—*Lambert. monogr. p. 91.*

pungens.

Icon. *Lambert. monogr. t. 16. f. c. Mich. arb. 1. p. 61. t. 5.*

On high mountains: on the Grandfather and Table

mountains, Carolina. η . v. s. in *Herb. Lambert*. The cones are large and armed with strong spines. The cone figured *t. 16. f. c.* in *Lambert. monogr.* is genuine, but the branch belongs to a separate species.

Tæda.

15. *P. foliis elongatis ternis, vaginis elongatis, strobilis oblongo-conicis deflexis folio brevioribus, spinis inflexis.*

—*Lambert. monogr. p. 23. t. 16. 17.*

Icon. *Lambert. l. c. Mich. arb. 1. p. 97. t. 9.*

In barren and sandy situations: Virginia to Florida. η . April, May. v. v. The *Loblolly* or *Old-field Pine* is found in large tracts in the southern states: all the woods seem to be seeded with it; for when any piece of cleared land is neglected for any space of time it will be covered with those pines. It is difficult and in some cases almost impracticable to recover those lands run over with young pines, as the ground appears to have lost all fertile properties for any other vegetable than those trees. The account Mr. Michaux gives of this tree is very correct and instructive; as also is the plate of Mr. Lambert; but unfortunately the latter, considering *P. tæda* *Wangh. amer. 41.* a genuine synonym, although it evidently belongs to *P. rigida* or *serotina*, has inadvertently been led into some errors in his description.

palustris.

16. *P. foliis ternis longissimis, stipulis pinnatifidis ramentaceis persistentibus, strobilis subcylindraceis muricatis.*

—*Lambert. monogr. p. 27. f. 20.*

P. australis. Mich. arb. 1. p. 64. t. 6.

Icon. *Lambert. et Mich. l. c. Abbot. insect. 1. t. 42.*

In the forests, near the sea-coast: North Carolina to Florida. η . May. v. v. The *Long-leaved, Yellow, Pitch*, or *Broom Pine* is a beautiful as well as very useful tree. Mr. Lambert's remarks respecting the quality of the wood he has taken from Wangenheim, whom he considers sufficient authority; but on the observations of Michaux respecting the male flowers, he mentions in his note, "I can only suppose Mr. Michaux has never seen my plate with the male flowers, or he never would have made such an observation about them."

Strobilus.

17. *P. foliis quinis gracilibus, vaginis brevissimis, strobilis pendulis cylindraceis folio longioribus, squamis laxis.*
—*Willd. sp. pl. 4. p. 501. Lambert. monogr. p. 31. t. 22.*

Icon. *Lambert. l. c. Mich. arb. 1. p. 103. t. 10. Wagh. amer. 1. t. 1. f. 1.*

In fertile soil, on the side of hills: Canada to Virginia. $\frac{1}{2}$. May. *v. v.* The *White* or *Weymouth Pine* is the largest and most useful of all the species above mentioned; in the State of Vermont they grow to an enormous size; it is the best timber in America for masts.

*** *Foliis fasciculatis. Larix.*

18. *P. foliis fasciculatis deciduis, strobilis oblongis, squamarum marginibus inflexis, bracteolis panduræformibus acuminè attenuato. Lambert. monogr. p. 55. t. 36. Ait. kew. 3. p. 569.*

pendula.

In low cedar swamps: Canada to New Jersey. $\frac{1}{2}$. April, May. *v. v.* The *Black Larch*, *Tamarack*, or *Hackmatack* of the Americans, is a beautiful tree, resembling the European Larch in appearance, as well as in the excellent qualities of its wood and bark.

19. *P. foliis fasciculatis deciduis, strobilis subrotundis paucifloris, squamis reflexis, bracteolis ellipticis obtuse acuminatis. Lambert. monogr. p. 56. t. 37.*

microcarpa.

P. pendula. Willd. arb. 215.

P. laricina. Du Roi herbk. 2. p. 83.

Larix americana. Mich. fl. amer. 2. p. 203.

Icon. *Lambert. l. c. Mich. arb. 3. t. 4. Wagh. amer. t. 10. f. 37.*

About Hudson's Bay and on high mountains of New York and Pennsylvania. $\frac{1}{2}$. May. *v. v.* The *Red Larch* resembles the preceding, and both have been considered as one species by Michaux; but they are specifically and constantly different; I never saw them both growing in the same place, or even near one another. Mr. Lambert likewise observes that they have always kept distinct, when raised from seed.

708. CUPRESSUS. Gen. pl. 1458.

1. *C. foliis distichis planis deciduis, floribus masculis aphyllulo-paniculatis, strobilis subglobosis.—Willd. sp. pl. 4. p. 512.*

disticha.

Icon. *Mich. arb. 3. p. 4. t. 1. Catesb. car. 1. t. 11. Comm. hort. 1. t. 59. Pluk. alm. t. 85. f. 8.*

In extensive swamps and on the banks of large rivers from Indian-river Delaware to Florida, and on the Mis-

Mississippi. *h.* May. *v. v.* The *Bald* or *Deciduous Cypress* is one of the largest trees of the New Continent. The extensive use made of its wood, and other particulars respecting this interesting tree, are fully elucidated in the excellent work of the younger Michaux, who paid particular attention to the use and properties of the different American forest trees.

thyoides. 2. *C. ramulis compressis, foliis quadrifariam imbricatis ovatis basi tuberculatis, strobilis globulosis.*—*Willd. sp. pl.* 4. *p.* 512.

Icon. Mich. arb. 3. *p.* 20. *t.* 2. *Wangh. amer. t.* 2. *f.* 4. *Pluk. mant. t.* 345. *f.* 1.

In deep swamps: New England to Carolina. *h.* April, May. *v. v.* The *White Cedar*, so well treated upon by Michaux, is the principal tree, composing what is called *Cedar-swamps*, throughout the middle and southern States.

709. THUYA. *Gen. pl.* 1457.

occidentalis. 1. *T. ramulis ancipitibus, foliis quadrifariam imbricatis ovato-rhombéis adpressis nudis tuberculatis, strobilis obovatis, squamis interioribus truncatis, infra apicem gibbosis.* *Willd. sp. pl.* 4. *p.* 508.

Icon. Mich. arb. 3. *p.* 29. *t.* 3. *Wangh. amer. t.* 2. *f.* 3. From Canada to the mountains of Virginia and Carolina.

h. May. *v. v.* The *American Arbor Vitæ* is rather scarce in the southern States, and only found on the steep banks of mountain torrents. The branches are extremely tough.

710. JUNIPERUS. *Gen. pl.* 1552.

communis. 1. *J. foliis ternis patentibus mucronatis bacca longioribus.* *Willd. sp. pl.* 4. *p.* 853.

erecta. *α. J. ramis erectis.*

depressa. *β. J. ramis depressis.*

α. About rocks, near the falls of rivers, in Canada and the western part of New York. *β.* in New York, and particularly in the province of Maine, in rocky or gravelly situations. *h.* May. *v. v.* The *Common Juniper* may probably have been originally brought from Europe; but the variety *β.*, or probably a distinct species, seems to be really an original native; it does not grow above a foot or two high, and one single

root will cover sometimes a space of from fifteen to twenty feet in diameter.

2. *J. foliis ternis basi adnatis, junioribus imbricatis, senioribus patulis.* *Willd. sp. pl. 4. p. 863.* *virginiana.*
Icon. Mich. arb. 3. p. 42. t. 5. Wangh. amer. t. 2. f. 51.
 In dry and rocky woods and fields: Province of Maine to Georgia. $\frac{1}{2}$. May. *v. v.* The *Red Cedar*, so useful and durable a wood, for whose history I refer to Michaux's work so often quoted, is as yet in great abundance in most parts of that country; but its extermination is going on so rapidly, that future inhabitants will be very much at a loss, and will feel the want of it when it is too late.
3. *J. foliis oppositis obtusis medio glandulosis, quadrifariam imbricatis, tenellis acutis oppositis, caule fruticoso.* *Sabina.*
 β . *Willd. sp. pl. 4. p. 852.* procumbens.
 In the clefts of rocks: Canada. *Michaux. \beta*. Within the Rocky-mountains. *M. Lewis. \frac{1}{2}. v. s. in Herb. Lewis.* Not above six inches high.
4. *J. foliis oppositis obtusiusculis, medio glandulosis, quadrifariam imbricatis, tenellis acutis ternis patulis, caule arboreo.* *Willd. sp. pl. 4. p. 852.* *excelsa.*
J. Sabina varietas. Pall. ross. 2. p. 15.
 On the banks of the waters of the Rocky-mountains. *M. Lewis. \frac{1}{2}. May. v. s. in Herb. Lewis.* A lofty elegant tree. Specimens of Pallas in the Herbarium of A. B. Lambert, Esq. seem to be the same with those collected by Mr. Lewis.
5. *J. foliis omnibus quadrifariam imbricatis, junioribus ovatis, senioribus acutis.* *Willd. sp. pl. 4. p. 851.* *barbadensis.*
Icon. Pluk. alm. t. 197. f. 4.
 On the coast of Florida. *Michaux. \frac{1}{2}. v. v. in Hortis.*

711. TAXUS. *Gen. pl. 1553.*

1. *T. foliis linearibus distichis margine revolutis, receptaculis masculis globosis.* *Willd. sp. pl. 4. p. 856.* *canadensis.*
T. baccata minor. Mich. fl. amer. 2. p. 245.
 In shady, rocky places: Canada. *Michaux.* On the banks of the Antietum, Maryland. *Ph. March, April. v. v.* The plants I observed on the Antietum cover a great part of the rocky banks of that river. Under the shade of other trees it does not rise above two or three feet.

712. ZAMIA. *Gen. pl.* 1700.*integrifolia.*

1. *Z. frondibus pinnatis, foliolis lanceolatis rotundato-obtusis basi attenuatis latere exteriori ad apicem serrulatis, stipite glabro subtetragono.* *Willd. sp. pl.* 4. p. 847.

Z. pumila. *Sp. pl.* 1659. *excl. synonym.*

Icon. Jacq. ic. 3. t. 635.

In East Florida. $\frac{1}{2}$. +. This species of palm is only found in Florida, as I have made all inquiries to find it in Georgia, but without success.

XX. CRYPTOGRAMIA.

I. GONOPTERIDES.

713. EQUISETUM. *Recept.* peltata, pentagona, spicata.
Indusium corniculatum. *Stam.* 4. *Styl.* 0. *Sem.* 1.

II. STACHYOPTERIDES.

714. LYCOPODIUM. *Capsulæ* reniformes, 1-loculares,
2-valves, polyspermæ. *Sem.* minutissima, pulve-
riformia.
715. BERNHARDIA. *Capsulæ* 3-cocæ, 3-loculares :
loculis superne dehiscentibus, semibivalvibus.
716. OPHIOGLOSSUM. *Capsulæ* nudæ, uniloculares,
in spicam articulatam disticham connatæ, 2-valves,
transverse dehiscentes.
717. BOTRYCHIUM. *Capsulæ* subglobosæ, rachi adu-
natæ in racemum compositum dispositæ, 1-loculares :
valvulis binis postice connexis transverse dehiscenti-
bus.

III. SCHISMATOPTERIDES.

718. HYDROGLOSSUM. *Spicæ* unilaterales. *Capsulæ*
biseriales, latere interiore a basi ad verticem dehis-
centes. *Indusium* squamiforme quamlibet capsulam
obtegens.
719. SCHIZÆA. *Spicæ* unilaterales, flabellatæ, aggre-
gatæ. *Capsulæ* vertice radiatim striatæ, subturbinatæ,
poro oblongo latere hiantes. *Indusium* continuum
e margine inflexo spicæ formatum.
720. OSMUNDA. *Capsulæ* subglobosæ, pedicellatæ,
striatæ, semibivalves, paniculatæ. *Indusium* nullum.

IV. FILICES.

721. ACROSTICHUM. *Capsulæ* sparsæ, discum totum inferiorem frondis vel ejus partem occupantes. *Indusium* nullum.
722. POLYPODIUM. *Sori* subrotundi, sparsi. *Indusia* nulla.
723. WOODSIA. *Sori* subrotundi, sparsi. *Indusium* calyciforme, apertum, margine crinitum, includens *Capsulas* pedicellatas.
724. ASPIDIUM. *Sori* subrotundi, sparsi. *Indusium* umbilicatum vel uno latere dehiscens.
725. ONOCLEA. *Capsulæ* partem frondis inferiorem dense tegentes. *Indusia* squamiformia, in formam baccæ connata non dehiscencia.
726. STRUTHIOPTERIS. *Capsulæ* partem frondis inferiorem dense tegentes. *Indusia* squamiformia, marginalia, interius dehiscencia.
727. ASPLENIUM. *Sori* lineares, transversales, sparsi. *Indusia* e venis lateralibus orta, costam versus dehiscencia.
728. SCOLOPENDRIUM. *Sori* lineares, transversales, sparsi. *Indusium* duplex, ad utrumque latus sori situm.
729. PTERIS. *Sori* continui, lineares, marginales. *Indusium* e margine frondis, inflexum, interius dehiscens.
730. VITTARIA. *Sori* lineares, longitudinales, continui vel in margine vel in disco frondis. *Indusium* duplex, ad utrumque latus sori.
731. BLECHNUM. *Sori* lineares, longitudinales, continui, ad utrumque latus costæ frondis. *Indusium* superficialiarium, interius dehiscens.
732. WOODWARDIA. *Sori* oblongi, distincti, recti, ad utrumque latus costæ frondis. *Indusia* superficialia, fornicata, interius dehiscencia.
733. ADIANTUM. *Sori* oblongi vel subrotundi, *Indusiis* membranaceis, e margine ortis, interius dehiscentibus inserti.
734. CHEILANTHES. *Sori* punctiformes, discreti, marginales, tecti *Indusio* squamiformi marginali interius dehiscente.
735. DICKSONIA. *Sori* punctiformes, marginales, subrotundi, distincti. *Indusium* duplex, alternum superficialiarium, exterius dehiscens, alterum marginale interius dehiscens.

736. HYMENOPHYLLUM. *Sorus* marginalis, receptaculo cylindraceo insertus. *Indusium* bivalve, sorum includens.

V. HYDROPTERIDES.

737. ISOETES. *Capsula* membranacea, non dehiscens, frondis basi immersa, 1-locularis. *Semina* angulata, receptaculis pluribus filiformibus inserta.
738. SALVINIA. *Indusia* imbricata, connata, capsulam unilocularem mentientia. *Semina* receptaculo centrali inserta.
739. AZOLLA. *Capsula* unilocularis, radicalis, globosa, polysperma.

I. GONOPTERIDES.

713. EQUISETUM. *Gen. pl.* 1614.

1. E. caulibus sterilibus simpliciter ramosis, ramis scabriusculis tetragonis, fructificationibus simplicibus, vaginis cylindraceis inciso-dentatis, dentibus acutis. *Willd. enum.* 1065. *Willd. sp. pl.* 5. p. 1.
Icon. Schkuhr filic. t. 167.
 In low and sandy fields : Pennsylvania and Virginia. ♀. April, May. *v. v.* *arvense.*
2. E. caulibus sterilibus fructificantibusque duplicato-ramosis, ramis scabriusculis deflexis tetragonis, ramulis subtriquetris. *Willd. enum.* 1065. *Willd. sp. pl.* 5. p. 3.
Icon. Schkuhr filic. t. 166. *Fl. dan.* 1182.
 In low shady woods : New York to Virginia. ♀. April—June. *v. v.* *sylvaticum.*
3. E. caulibus subramosis, ramis subquaternis tetragonis glabris, spica cylindracea terminali.—*Willd. sp. pl.* 5. p. 4.
 In swamps : New York to Virginia. ♀. May. *v. v.* Resembles *E. limosum*. *uliginosum.*
4. E. caulibus simpliciter ramosis glabris sulcatis, ramis pentagonis apice spiciferis. *Willd. enum.* 1065. *Willd. sp. pl.* 5. p. 5. *palustre.*

Icon. *Schkuhr filic. t.* 168, 169. *Fl. dan.* 1183.

On the banks of rivers and in deep swamps: Virginia.

¶. May, June. *v. v.*

scirpoides.

5. *E. caulibus simplicibus adscendentibus glabris filiformibus apice spiciferis, vaginis 3-dentatis sphacelatis, dentibus aristatis apice caducis.* *Willd. sp. pl.* 5. *p.* 7. *Mich. fl. amer.* 2. *p.* 281.

E. reptans. Swartz. in litt.

In shady woods, round the mossy feet of trees: Canada and on the Green mountains, Vermont. ¶. July.

v. v. A small species.

hyemale.

6. *E. caulibus simplicibus erectis scaberrimis apice spiciferis, vaginis discoloribus basi apiceque sphacelatis, dentibus aristatis omnino caducis.* *Willd. sp. pl.* 5. *p.* 8.

Icon. *Schkuhr filic. t.* 172.

On the banks of rivers and in swamps: Canada to Virginia. ¶. July, Aug. *v. v.*

II. STACHYOPTERIDES.

714. LYCOPODIUM. *Gen. pl.* 1615.

* *Spicis pedunculatis.*

carolinianum.

1. *L. caule repente, foliis subdistichis patulis lanceolatis superficialibus adpressis, pedunculo erecto solitario elongato monostachyo, bracteis sublanceolatis.*—*Willd. sp. pl.* 5. *p.* 14.

Icon. *Dill. musc. t.* 62. *f.* 5.

In low meadows and woods: Pennsylvania to Carolina.

¶. July. *v. v.*

clavatum.

2. *L. caule repente, ramis adscendentibus, foliis sparsis enervibus incurvato-setigeris, spicis geminatis cylindricis pedunculatis, squamis ovatis acuminatis eroso-denticulatis.* *Willd. sp. pl.* 5. *p.* 16.

Icon. *Schkuhr filic. t.* 162. *Fl. dan.* 126. *Dill. musc. t.* 58. *f.* 1. *Pluk. alm. t.* 47. *f.* 8.

In dry pine woods: Canada to Pennsylvania. ¶. July. *v. v.* It sometimes has only one spike.

complanatum.

3. *L. caule erecto, ramis alternis dichotomis, foliis bifariis connatis apice patentibus, superficialibus solitariis adpressis, pedunculis quadrifidis tetrastachyis, spicis teretibus cylindricis.* *Willd. sp. pl.* 5. *p.* 19.

Icon. *Fl. dan.* 78. *Dill. musc. t.* 59. *f.* 3.

In shady woods, on rocky soil: Canada to Virginia. ♀.
July. *v. v.*

4. *L. caulibus erectis, ramis alternis dichotomis subcompressis, foliis lanceolatis acutis quadrifariis adpressis, pedunculis solitariis elongatis tristachyis, spicis teretibus, squamis subrotundis acuminatis.* *tristachyum.*

On high mountains in Virginia, near the Sweet-springs.
♀. July. *v. v.* This species is intermediate between the preceding and following one.

5. *L. caule erecto, ramis alternis dichotomis, foliis lanceolatis acutis quadrifariis adpressis convexis, pedunculis solitariis monostachyis, spicis teretibus, squamis subcordatis acuminatis.*—*Willd. sp. pl.* 5. *p.* 20. *sabinæfolium.*

L. alpinum. Mich. fl. amer. 2. *p.* 282.

Icon. *Dill. musc. t.* 58. *f.* 2?

In Canada. *Michaux.* ♀. July. +.

** *Spicis sessilibus; foliis caulem circumobidentibus.*

6. *L. caule erecto, ramis alternis confertis dichotomis patentibus, foliis sparsis sexfariis lineari-lanceolatis patulis, spicis solitariis terminalibus sessilibus.* *Willd. sp. pl.* 5. *p.* 21. *dendroideum.*

L. obscurum. Sp. pl. 1566.

Icon. *Schkuhr filic. t.* 164. *Dill. musc. t.* 64. *f.* 12.

In dry shady woods: Canada to Carolina. ♀. July. *v. v.* This and some other species are known by the name of *Ground Pine*, and made use of for ornamenting rooms and chimney-pieces, it forming, when properly tied up, beautiful festoons.

7. *L. caule repente, ramis adscendentibus basi bis bipartitis, ramulis simplicibus, foliis quinquefariis lineari-lanceolatis mucronatis apice serrulatis patentibus, ad incrementa annua contractis, spicis solitariis sessilibus terminalibus.* *Willd. sp. pl.* 5. *p.* 23. *annotinum.*

Icon. *Schkuhr filic.* 162. *Fl. dan.* 127. *Dill. musc. t.* 63. *f.* 9.

In shady woods: Canada to Pennsylvania. ♀. July. *v. v.*

8. *L. caule subramoso repente, ramis simplicibus solitariis erectis apice monostachyis, foliis linearibus sparsis acutis integerrimis supra curvis, spica sessili foliosa.* *Willd. sp. pl.* 5. *p.* 25. *inundatum.*

Icon. *Schkuhr filic.* 160. *Fl. dan.* 336. *Dill. musc. t.* 61. *f.* 7.

In cedar swamps and overflowed woods: Canada to New York. 24. July. v. v.

- alopecuroides*. 9. *L. caule repente subramoso, ramis subsimplicibus elongatis adscendentibus apice monostachyis, foliis lineari-subulatis basi ciliato-dentatis patulis, spica sessili foliosa. Willd. sp. pl. 5. p. 26.*

Icon. *Schkuhr filic. t. 160. Dill. musc. t. 62. f. 6.*

In sphagnous swamps: New York to Carolina. 24. July. v. v. It is known by the name of *Walking Fern*.

- selaginoides*. 10. *L. caule repente, ramis adscendentibus simplicibus, foliis sparsis lanceolatis patulis ciliato-denticulatis, spicis terminalibus solitariis foliosis sessilibus. Willd. sp. pl. 5. p. 28.*

Icon. *Schkuhr filic. t. 165. Fl. dan. 70. Dill. musc. t. 68. f. 1.*

In mossy woods: Canada and New Hampshire. 24. July. v. v. The American plant is smaller than the European.

- rupestre*. 11. *L. caule repente ramoso, ramis subdivisis adscendentibus, foliis sparsis imbricatis lineari-lanceolatis ciliatis apice piliferis, spicis solitariis sessilibus terminalibus. Willd. sp. pl. 5. p. 30.*

Icon. *Schkuhr filic. t. 165. Dill. musc. t. 63. f. 11.*

On rocks: Canada to Virginia, and on the Carolina mountains. 24. July. v. v. A small species.

*** *Spicis sessilibus; foliis distichis.*

- albidulum*. 12. *L. foliis bifariis ovatis acutis denticulatis, superficialibus alternis distichis adpressis, spicis terminalibus elongatis sessilibus tetragonis. Willd. sp. pl. 5. p. 37.*

In moist shady places: Pennsylvania. 24. Aug. v. v. A very small, moss-like species, very much resembling the following.

- apodum*. 13. *L. foliis bifariis subrotundo-ovatis acutis planis denticulatis cum superficialibus acuminatis alternantibus, caule ramoso basi radicante, spicis terminalibus sessilibus subsolitariis. Willd. sp. pl. 5. p. 38.*

Icon. *Dill. musc. t. 64. f. 3.*

In shady woods: Pennsylvania to Florida. 24. July. v. v.

**** *Capsulis axillaribus.*

- lucidulum*. 14. *L. foliis octofariis lineari-lanceolatis denticulatis acutis patenti-reflexis, caule adscendente bifido. Willd. sp. pl. 5. p. 51.*

L. reflexum. *Schkuhr filic. t.* 159.

Icon. *Dill. musc. t.* 56. *f.* 2.

In low sphagnous grounds and on the banks of shady rivulets: Canada to Carolina. $\mathcal{U}$. July. *v. v.* Resembles *L. Selago*; it frequently bears bulbs instead of capsules.

715. *BERNHARDIA*. *Willd. act. acad. erf. 1802. p.* 11.

1. *B. caule nudo dichotomo ramisque triquetris*.—*Willd.* *dichotoma.*
sp. pl. 3. *p.* 56.

Hoffmannia aphylla. *Wild. in Roem. et Usteri bot. mag.* 6.
p. 17.

Psilotum triquetrum. *Swartz. synop. filic.* 187.

Psilotum floridanum. *Mich. fl. amer.* 2. *p.* 281.

Lycopodium nudum. *Sp. pl.* 1564.

Icon. *Schkuhr filic. t.* 165. *b.* *Dill. musc. t.* 64. *f.* 4.

On the cliffs of rocks, near the sea-coast, in Florida.
 $\mathcal{U}$. June. *v. s.*

716. *OPHIOGLOSSUM*. *Gen. pl.* 1621.

1. *O. spica caulina, fronde ovata obtusa, arcte reticulata*. *vulgatum.*
Willd. sp. pl. 5. *p.* 58.

Icon. *Schkuhr filic. t.* 153. *Fl. dan.* 147.

In low grassy open places, in woods and on the sides of hills: New York to Pennsylvania. $\mathcal{U}$. May. *v. v.*

2. *O. spica caulina, fronde subcordato-ovata obtusa, radice bulbosa*. *Willd. sp. pl.* 5. *p.* 60. *bulbosum.*

O. crotalophoroides. *Walt. fl. car.* 256.

In low sandy grounds: New Jersey to Carolina. $\mathcal{U}$.
May. *v. v.*

717. *BOTRYCHIUM*. *Swartz. synop. filic.* 8.

1. *B. scapo nudo, frondibus glabris radicalibus tripartito-bipinnatis, foliolis lunatis crenatis, spicis pinnatis*.—*fumarioides.*
Willd. sp. pl. 5. *p.* 63.

B. lunarioides. *Swartz. synop. filic.* 172.

Botrypus lunarioides. *Mich. fl. amer.* 2. *p.* 274.

Osmunda biternata. *Lam. encycl.* 4. *p.* 608.

Icon. *Schkuhr filic. t.* 157.

In pastures and open woods: New York to Carolina. $\mathcal{U}$.
June. *v. v.*

2. *B. scapo inferne unifrondoso, fronde subbiternata, foliolis oblongo-lanceolatis serrulatis basi dilatatis inæqualiter cordatis, spicis bipinnatis*.—*Willd. sp. pl.* 5. *p.* 63. *obliquum.*

In open woods: Pennsylvania and Virginia. *Ÿ*. June, July. *v. v.* Resembles the preceding very much, and is probably only a variety.

dissectum. 3. *B. scapo inferne unifrondoso, fronde tripartito-bipinnatifida, laciniis linearibus bipartitis apice bidentatis. Willd. sp. pl. 5. p. 64.*

Icon. *Schkuhr filic. t. 158. Pluk. amalth. t. 427. f. 5.*

In pastures and open dry woods: New York to Florida. *Ÿ*. June. *v. v.*

virginicum. 4. *B. hirsutum; scapo medio frondoso, fronde subterna tripartito-bipinnatifida, foliolis inciso-pinnatifidis, laciniis obtusis subtridentatis, spicis bipinnatis divaricatis.—Willd. sp. pl. 5. p. 64.*

Botrypus virginicus. Mich. fl. amer. 2. p. 274.

Osmunda virginica. Sp. pl. 1579.

Osmunda multifida. Gmel. nov. com. petrop. 12. t. 11. f. 1.

Icon. *Schkuhr filic. t. 156.*

In shady woods, on rich vegetable soil: Canada to Carolina. *Ÿ*. June, July. *v. v.* This is the largest of the species here described; it is known by the name of *Rattle Snake Fern*, probably from the circumstance of growing near the places where those venomous animals generally are found.

gracile. 5. *B. glabrum; scapo medio frondoso, fronde tripartito-bipinnatifida, laciniis inciso-subpinnatifidis acutis subdentatis, spicis gracilibus pinnatis erectis.*

In shady fertile woods: Virginia. *Ÿ*. June. *v. v.* This species approaches near to the preceding in its first appearance, but is by far a smaller and more slender plant, besides the other distinctions.

III. SCHISMATOPTERIDES.

718. HYDROGLOSSUM. *Willd. sp. pl. 5. p. 77.*

Ophioglossum. Linn.

palmatum. 1. *H. caule flexuoso-scandente, frondibus conjungatis cordatis quinquelobo-palmatis, lobis lanceolatis integerrimis obtusis obsolete sinuatis, spicillis terminalibus composite paniculatis oblongo-linearibus.—Willd. sp. pl. 5. p. 84.*

Lygodium palmatum. Swartz. *synop. filic.* 154.

Cteisium paniculatum. Mich. *fl. amer.* 2. p. 275.

Icon. *Schkuhr filic.* 140. *Willd. act. acad. erf. 1802.*
t. 1. f. 2.

In low copses, climbing among small shrubs. 24. July.
v. v. This is the most beautiful and singular of all
the North American ferns, and is a highly ornamental
plant when cultivated in pots.

719. SCHIZÆA. *Smith act. taur.* 5. p. 419.

1. *S. fronde simplicissima lineari-compressa, spicis conglomeratis inflexis secundis.*

pusilla.

In barren sandy but moist grounds : New Jersey, Burlington county, near a place called Quaker Bridge. 24. Aug. Sept. v. v. This singular little fern is very scarce, and so small that it generally escapes the notice of the botanist, unless accident points it out.

720. OSMUNDA. *Gen. pl.* 1622.

1. *O. frondibus sterilibus pinnatis, pinnis pinnatifidis, laciniis ovato-oblongis obtusis integerrimis, stipite lanato, fructificantibus bipinnatis lanuginosis.—Willd. sp. pl. 5. p. 98.*

cinnamomea.

Icon. *Schkuhr filic. t.* 146. *Moris. hist.* 3. s. 14. t. 4. f. 3.

In low open woods and exsiccated swamps : New England to Florida. 24. June—Aug. v. v. This is a fern of the size and habit of *Polypodium Filix mas* ; the fertile stems are covered with a cinnamon-coloured down.

2. *O. frondibus pinnatis ferrugineo-tomentosis, pinnis pinnatifidis apice coarctato-fructificantibus.—Willd. sp. pl. 5. p. 96.*

Claytoniana.

In Virginia. *Clayton.* 24. April. +. This is probably only a variety of the preceding. I have no specimen in my herbarium ; but recollect very well that the fructiferous stems of that species very frequently grow out into leaves, which may have given rise to the formation of the present species.

3. *O. frondibus pinnatis glabris, pinnis oppositis pinnatifidis, laciniis oblongis acutiusculis integerrimis, pinnis aliquot intermediis fructificantibus.—Willd. sp. pl. 5. p. 96.*

interrupta.

O. basilaris. *Sprengel. aul.* 3. p. 160.

Icon. *Schkuhr filic. t.* 144.

In low and swampy grounds: Canada to Virginia, and in the western territories. ♀. June, July. v. v. This singular fern is about two feet high.

spectabilis.

4. *O. frondibus bipinnatis, pinnulis oblongis obtusiusculis argute serrulatis basi truncatis inæqualibus, omnibus alternis, panicula bipinnata fructificante in apice frondis.*—*Willd. sp. pl.* 5. p. 98.

O. regalis β. *Sp. pl.* 1521. *Mich. fl. amer.* 2. p. 273.

Icon. *Pluk. alm. t.* 184. f. 4.

In mountain swamps: Canada to Carolina. ♀. July. v. v. A very elegant species.

IV. FILICES.

721. ACROSTICHUM. *Gen. pl.* 1625.

aureum.

1. *A. frondibus pinnatis, pinnis alternis oblongo-lanceolatis integerrimis, basi cuneatis æqualibus, omnibus acuminatis, superioribus fructificantibus.* *Willd. sp. pl.* 5. p. 116.

Icon. *Schkuhr filic. t.* 1. *Petiv. fil. t.* 8. f. 5. *Plum. amer. t.* 7. *Pluk. alm. t.* 288. f. 2.

In deep swamps near the sea-coast: Florida. ♀. July. v. v. This is the largest of the North American ferns, the leaves being sometimes above five feet long.

722. POLYPODIUM. *Swartz. synop. filic.* 3.

vulgare.

1. *P. frondibus profunde pinnatifidis, laciniis lineari-lanceolatis obtusis crenulatis approximatis, superioribus sensim minoribus, soris solitariis, caudice paleaceo.* *Willd. sp. pl.* 5. p. 172.

Icon. *Schkuhr filic. t.* 11. *Plum. fil. t. A. f.* 2.

On rocks and old rotten trees: Canada to Carolina. ♀. July. v. v.

virginianum.

2. *P. frondibus profunde pinnatifidis, laciniis lanceolatis obtusis integerrimis approximatis, superioribus sensim minoribus, soris solitariis, caudice nudo.* *Willd. sp. pl.* 5. p. 174.

Icon. *Petiv. filic. t.* 7. f. 9. *Plum. amer. t.* 36. *filic. t.* 77.

On the trunks of trees: Virginia? $\mathcal{U}$. July. +.
Willdenow doubts whether this is really a native of Virginia, and I believe with much propriety, as I likewise never have seen any other species than *P. vulgare* under the name of *P. virginicum*.

3. *P. frondibus profunde pinnatifidis, laciniis alternis linearibus integerrimis obtusis, superioribus sensim minoribus, subtus stipiteque squamulosis, apice fructiferis, soris solitariis.* *Willd. sp. pl. 5. p. 174.*

P. ceteraccinum. *Mich. fl. amer. 2. p. 271.*

Acrostichum polypodioides. *Sp. pl. 1525.*

Icon. Schkuhr filic. t. 11. b.

On rocks and trunks of old trees: Virginia to Florida, Kentucky and Tennessee; on the rocks of the Natural bridge, Virginia, and on the stems of trees in the Dismal-swamp. *Ph. July. v. v.*

4. *P. frondibus bipinnatifidis glabriusculis, pinnis duabus infimis deflexis, laciniis lanceolatis obtusis ciliatis, pinnarum inferiorum inciso-crenatis superiorum integerrimis, infimis adnato-decurrentibus, soris minutis solitariis.* *Willd. sp. pl. 5. p. 200.*

hexagonopterum.

Icon. Pluk. alm. t. 234. f. 2. bona. Schkuhr filic. t. 20. b.

In shady moist woods on fertile soil: New York to Carolina. $\mathcal{U}$. July. *v. v.* The whole leaf forms a triangle in its circumference; the stem is smooth.

5. *P. frondibus bipinnatifidis ciliatis, pinnis oppositis contiguous adnatis, pinnulis subellipticis, stipite paleaceo, soris minutis.* *Willd. sp. pl. 5. p. 200.*

connectile.

In shady woods: Canada to New York. $\mathcal{U}$. July. *v. v.*
Resembles the preceding.

6. *P. frondibus ternatis bipinnatis rectis rigidulis, laciniis obtusiusculis subintegerrimis, soris marginalibus confluentibus.* *Willd. sp. pl. 5. p. 210.*

calcareum.

P. Dryopteris. *Boiton filic. 53. t. 1.*

Nephrodium Dryopteris. *Mich. fl. amer. 2. p. 270.*

In shady beech-woods: Canada to Pennsylvania. $\mathcal{U}$. July. *v. v.* This is a very rare fern in Pennsylvania. I only found it on the western mountains in deep shady beech forests.

723. WOODSIA. *Brown in linn. trans.* 11. p. 173.*hyperborea.*

1. W. frondibus pinnatis, pinnis tripartitis vel pinnatifido-incisis cuneiformibus obtusis dentatis subtus hirtis, soris solitariis demum confluentibus.—*Brown l. c.* cum icone.

Polypodium hyperboreum. Willd. *sp. pl.* 5. p. 197.

Polypodium arvonicum. Smith *fl. brit.* 3. p. 1115.

Acrostichum ilvense. Huds. *angl.* 451.

Acrostichum alpinum. Bolton *filic.* 76. t. 42.

Acrostichum hyperboreum. Liljeblad *act. holm.* 1793. p. 201. t. 8.

Icon. Schkuhr *filic.* t. 17. b. Pluk. *phytogr.* t. 89. f. 5.

Moris. *hist.* 3. s. 14. t. 3. f. 23.

In the clefts of rocks: Canada and on the high mountains of Pennsylvania and Virginia. ♀. July. v. v. A small fern growing in large tufts, and covered with long brown chaffy hair.

ilvensis.

2. W. frondibus bipinnatifidis, laciniis oblongis obtusis inferioribus repandis, superioribus integerrimis subtus hirtis, soris submarginalibus demum confluentibus, stipite superne villosa.—*Brown l. c.*

Polypodium ilvense. Willd. *sp. pl.* 5. p. 198.

Polystichum Marantæ. Roth *fl. germ.* 3. p. 92.

Acrostichum ilvense. Sp. *pl.* 1528.

Icon. Schkuhr *filic.* t. 19. Fl. dan. 391.

On rocks: Canada to Virginia. ♀. July. v. v. Resembles the preceding very much; but the leaves are smaller divided and covered with fine woolly hair, not chaffy as in the other.

724. ASPIDIUM. Swartz. *synop. filic.* 3.

Nephrodium. Mich. *fl. amer.* 2. p. 266.

* *Frondibus ternatis.*

cicutarium.

1. A. frondibus ternatis, foliolis pinnatifidis, laciniis acuminatis sinuato-pinnatifidis integerrimis, lateralium infima et exteriore lacinia elongata, soris serialibus. Willd. *sp. pl.* 5. p. 215.

Polypodium cicutarium. Sp. *pl.* 1549.

Polypodium appendiculatum. Swartz. *fl. ind. occid.* 3. p. 1677.

Icon. Pluk. *alm.* t. 289. f. 4. & t. 296. f. 2.

On rocks in the mountains of Virginia. ♀. +.

** *Frondebis pinnatis.*

2. *A. frondibus pinnatis*, pinnis lanceolatis falcatis acutis *acrostichoides*. ciliato-serratis, basi superiore mucronato-auriculatis, inferiore cuneatis, superioribus fructificantibus minoribus, stipite rachique paleaceis, soris solitariis demum confluentibus. *Willd. sp. pl. 5. p. 225.*

A. auriculatum. Schkuhr filic. 31. t. 30. excl. synonym.

Nephrodium acrostichoides. Mich. fl. amer. 2. p. 267.

On rocks, in shady low places: New England to Carolina. *¶. June—Aug. v. v.* Resembles *N. auriculatum.*

*** *Frondebis subbipinnatis; indusiis dimidiatis reniformibus.*

3. *A. frondibus pinnatis*, pinnis lineari-lanceolatis pinnatifidis, laciniis oblongis obtusiusculis subintegerrimis ciliatis, soris marginalibus, stipite lævi.—*Willd. sp. pl. 5. p. 248.* *noveboracense.*

A. thelypteroides. Swartz. synop. filic. 57.

Nephrodium thelypteroides. Mich. fl. amer. 2. p. 267.

Polypodium noveboracense. Sp. pl. 1552.

Icon. *Schkuhr filic. t. 46.*

On river sides and the banks of ditches and ponds: Canada to Carolina. *¶. July. v. v.*

4. *A. frondibus pinnatis*, pinnis lineari-lanceolatis pinnatifidis glabris, laciniis ovatis acutis integerrimis, soris marginalibus contiguis demum confluentibus. *Willd. sp. pl. 5. p. 249.* *Thelypteris.*

Polypodium Thelypteris. Mant. 505.

Polystichum Thelypteris. Roth fl. germ. 3. p. 77.

Acrostichum Thelypteris. Sp. pl. 1528.

Icon. *Schkuhr filic. t. 52. Fl. dan. 760. Engl. bot. 1018.*

In low grassy fields and swamps: Canada to Virginia. *¶. July. v. v.* It is very seldom found with fructifications; the leaves are smaller than in the preceding.

5. *A. frondibus lanceolato-ovatis glabris pinnatis*, pinnis subcordato-oblongis pinnatifidis, laciniis oblongis obtusis dentato-serratis, stipite paleaceo.—*Willd. sp. pl. 5. p. 252.* *cristatum.*

Polypodium cristatum. Sp. pl. 1551.

Icon. *Schkuhr filic. t. 37. Afzel. act. holm. 1787. t. 9.*

- Callipteris*. β . A. majusculum ; pinnis alternis, laciniis oblongis inæqualiter adpresso-serratis, fronde apice fructificante.
Polypodium Callipteris. *Ehrh. Beitr.* 3. p. 77.
Polystichum cristatum. *Roth germ.* 3. p. 84.
- lancastricense*. γ . A. pinnis suboppositis, laciniis triangulari-ovatis acute serratis, stipite nudo.—*Willd. sp. pl.* 5. p. 261.
Schkuhr filic. t. 41.
 In moist rocky situations : New York to Virginia. $\mathcal{U}$.
 July. v. v. Of middle size.
- **** *Frondibus bipinnatis triplicato-pinnatisve ; indusiis dimidiatis reniformibus.*
- obtusum*. 6. A. frondibus bipinnatis, pinnulis oblongis obtusis superioribus coadunatis dentato-crenatis, rachi superne pubescente. *Willd. sp. pl.* 5. p. 254.
Polypodium obtusum. *Swartz. synop. filic.* 39. *Schkuhr filic.* 18.
Icon. Schkuhr filic. t. 21. $\mathfrak{S}$ 43. b.
 In clefts of rocks : Pennsylvania and Virginia. $\mathcal{U}$. July.
 v. v. A small species, not above four or five inches high.
- aculeatum*. 7. A. frondibus bipinnatis, pinnulis ovatis subfalcatis acutis mucronato-serratis, basi superiore truncatis, inferiore abbreviato-cuneatis, superioribus fructificantibus, stipite rachique paleaceis. *Willd. sp. pl.* 5. p. 258.
Polypodium aculeatum. *Sp. pl.* 1552.
Polystichum aculeatum. *Roth fl. germ.* 3. p. 79.
Icon. Schkuhr filic. t. 39. $\mathfrak{S}$ 40. *Bolt. filic.* t. 56. *Pluk. alm.* t. 180. f. 1.
 In shady rocky places, on the Green mountains, Vermont. $\mathcal{U}$. Aug. v. v. The size of No. 5, of a shining and strong texture.
- marginale*. 8. A. frondibus bipinnatis, pinnulis oblongis obtusis decurrentibus crenatis, crenis baseos profundioribus, soris marginalibus, stipite paleaceo. *Willd. sp. pl.* 5. p. 259.
Polypodium marginale. *Sp. pl.* 1522.
Nephrodium marginale. *Mich. fl. amer.* 2. p. 267.
Icon. Schkuhr filic. t. 45. b.
 In rocky shady places : Canada to Carolina. $\mathcal{U}$. July.
 v. v. Resembles the following.
- Filix mas*. 9. A. frondibus bipinnatis, pinnulis oblongis obtusis serratis, serraturis muticis, soris costæ mediæ approximatis, stipite rachique paleaceis. *Willd. sp. pl.* 5. p. 259.

Polypodium Filix mas. Sp. pl. 1551.

Polystichum Filix mas. Roth. fl. germ. 3. p. 82.

Icon. *Schkuhr filic. t.* 44. *Bolt. filic. t.* 24. *Moris. hist.* 3. s. 14. t. 3. f. 6.

- β. *A. pinnulis eroso-serratis remotioribus.*—*Schkuhr filic. t.* 45. erosum.

In shady pine forests : New Jersey to Virginia. β. in Carolina. ♀. July. v. v. From two to three feet high ; the leaflets are more obtuse, and more frequently doubly serrated, than in the European plant.

10. *A. frondibus bipinnatis, pinnulis linearibus pinnatifido-incisis, laciniis apice submucronato-serratis, stipite paleaceo.* *Willd. sp. pl.* 5. p. 262. intermedium.

In Pennsylvania. *Muhlenberg.* ♀. +. Resembles the following in several respects very much.

11. *A. frondibus bipinnatis, pinnulis oblongis decurrentibus confluentibus inciso-dentatis, laciniis mucronato-serratis, stipite paleaceo, indusiis glandulosis.* *Willd. sp. pl.* 5. p. 262. spinulosum.

Polypodium spinulosum. Retz. prodr. fl. scand. n. 1295.

Polypodium cristatum. Hoffm. fl. germ. 2. p. 8.

Polystichum spinosum. Roth. fl. germ. 3. p. 91.

Icon. *Schkuhr filic. t.* 48. *Fl. dan.* 707. *Fr. Mill. icon. t.* 2. f. 2.

In shady woods, in fertile soil : Pennsylvania to Virginia. ♀. July. v. v. A large species.

12. *A. frondibus bipinnatis, pinnulis oblongis distinctis pinnatifido-incisis, laciniis mucronato-serratis, stipite paleaceo, indusiis lævibus.* *Willd. sp. pl.* 5. p. 263. dilatatum.

Polypodium dilatatum. Hoffm. fl. germ. 2. p. 7.

Polypodium aristatum. Villars fl. delph. 3. p. 844.

Polypodium cristatum. Huds. angl. 457.

Polystichum multiflorum. Roth. fl. germ. 3. p. 87.

Nephrodium cristatum. Mich. fl. amer. 2. p. 269.

Icon. *Schkuhr filic. t.* 47. *Bolt. filic. t.* 23. *Fr. Mill. ic. t.* 2. f. 4. *Pluk. alm. t.* 181. f. 2.

In shady rocky woods : Pennsylvania and Virginia. ♀. July. v. v. Resembles *A. Filix femina* ; it is larger, broader, and more compound in its leaves.

***** *Frondibus bipinnatis triplicato-pinnatisve ; indusiis lateralibus.*

13. *A. frondibus bipinnatis oblongo-lanceolatis, pinnulis oppositis oblongis obtusis serratis, inferioribus pinnatifidis.* bulliferum.

dis, rachi bulbifera, soris subrotundis. *Willd. sp. pl.* 5. p. 275.

Polypodium bulbiferum. Sp. pl. 1553.

Nephrodium bulbiferum. Mich. fl. amer. 2. p. 268.

Icon. *Schkuhr filic. t.* 57. *Corn. canad.* 5. *Moris. hist.* 3. s. 14. t. 3. f. 10.

In shady woods, about rocks : Canada to Pennsylvania.

♂. July. v. v. The leaf is narrow, and produces generally some small bulbs on its midrib.

- asplenioides.* 14. A. frondibus bipinnatis, pinnulis lineari-lanceolatis inciso-serratis, serraturis bi- s. tridentatis terminalibus acutioribus, soris oblongis lunatis. *Willd. sp. pl.* 5. p. 276.

Nephrodium asplenioides. Mich. fl. amer. 2. p. 268.

Polypodium pensylvanicum. Muhlb. in litt.

Asplenium Athyrium. Sprengel. anleit. 3. p. 113.

Icon. *Schkuhr filic. t.* 78.

In shady woods, on the banks of rivulets and ditches : New England to Carolina. ♂. July. v. v. A tall species, very much resembling the following in many respects.

- Filix femina.* 15. A. frondibus bipinnatis, pinnulis oblongo-lanceolatis inciso-serratis, serraturis bi- s. tridentatis acutiusculis, soris oblongis rectis. *Willd. sp. pl.* 5. p. 276.

A. alpestre. *Schkuhr filic. p.* 58.

Polypodium Filix femina. Sp. pl. 1551.

Polypodium molle. Schreb. spicil. 70.

Polypodium dentatum, incisum et trifidum. Hoffm. fl. germ. 2 p. 7.

Athyrium molle, trifidum, ovatum et Filix femina. Roth. fl. germ. 3. p. 61—65.

Icon. *Schkuhr filic. t.* 58. 59. & 60. *Pluk. phytogr. t.* 180. f. 4. *Moris. hist.* 3. s. 14. t. 3. f. 8.

In low shady grounds : Canada to Virginia. ♂. July. v. v.

- angustum.* 16. A. frondibus bipinnatis, pinnulis lanceolatis inciso-serratis, serraturis subbidentatis, infima superiore elongata, soris oblongis sublunatis. *Willd. sp. pl.* 5 p. 277.

Nephrodium Filix femina. Mich. fl. amer. 2. p. 208.

In shady low woods : Canada to Pennsylvania. ♂. July. v. v. Resembles the preceding.

- punctilobum.* 17. A. frondibus bipinnatis, pinnulis decurrentibus ovato-oblongis pinnatifidis, laciniis subquadridentatis, soro

solitario instructis, rachibus pubescentibus, stipite glabro. *Willd. sp. pl. 5. p. 279.*

Nephrodium punctilobulum. *Mich. fl. amer. 2. p. 268.*

In shady woods, on the banks of small rivulets: Canada to Virginia. *℥. July. v. v.* From two to three feet high.

18. *A. frondibus bipinnatis, pinnulis decurrentibus ovato-oblongis pinnatifidis, laciniis dentatis, soris sparsis.* *atomarium.*
Willd. sp. pl. 5. p. 279.

In Pennsylvania. *Muhlenberg. ℥. +.* Not much above a span high; fructification small.

19. *A. frondibus bipinnatis, pinnulis ovatis decurrentibus dentatis, soris solitariis juxta dentes pinnularum.* *tenu.*
Willd. sp. pl. 5. p. 279.

Nephrodium tenue. *Mich. fl. amer. 2. p. 269.*

In clefts of rocks: Canada to Virginia. *℥. July. v. v.*
A small species; fructifications large.

20. *A. frondibus bipinnatis, pinnulis subtus paleaceo-setosis oblongis obtusis crenatis coadunatis, soris demum confluentibus.* *rufidulum.*
Willd. sp. pl. 5. p. 282.

Nephrodium rufidulum. *Mich. fl. amer. 2. p. 269.*

On rocks: Canada to Pennsylvania. *℥. July. v. v.*
A small species, growing in large tufts; it resembles *Woodsia hyperborea* very much.

725. ONOCLEA. *Willd. in mag. ges. naturf. fr. x.*
berl. 1809. p. 160.

1. *O. frondibus sterilibus pinnatis, pinnis lanceolatis acutis inciso-dentatis, superioribus coadunatis, fructificantibus bipinnatis, pinnulis recurvato-globosis glabris, rachi glabra.*—*Willd. sp. pl. 5. p. 287.* *sensibilis.*

Icon. *Schkuhr filic. t. 102. Pluk. mant. t. 404. f. 2.*
Breyn. cent. t. 56. f. B.

In low pastures and open woods: New York to Florida.
℥. July. v. v. About a foot high; leaves pale green.

2. *O. frondibus sterilibus pinnatis, pinnis oppositis pinnatifidis, lobis rotundatis; inferioribus sensim minoribus, superioribus coadunatis, fructificantibus bipinnatis, pinnulis incisitis recurvato-globosis villosis, rachi squamosa.*—*Schkuhr filic. p. 95. t. 103.* *obtusilobata.*

In low grounds: Pennsylvania. *℥. July. v. v.* Not so large as the preceding.

726. STRUTHIOPTERIS. *Willd. in mag. ges. nat. fr. z. berl.* 1809. p. 160.

pennsylvanica. 1. S. frondibus sterilibus bipinnatifidis, laciniis integerrimis obtusis, infima elongata acuta. *Willd. sp. pl.* 5. p. 289.

Onoclea nodulosa. *Schkuhr filic. p.* 96. t. 104.

In Pennsylvania. *Muhlenberg.* 4. +. Resembles *S. germanica.*

727. ASPLENIUM. *Swartz. synop. filic. p.* 4.

rhizophyllum. 1. A. frondibus lanceolatis stipitatis subcrenatis, basi auriculato-cordatis, apice longissimo lineari-filiforme radiante. *Willd. sp. pl.* 5. p. 305.

Icon. *Pluk. alm. t.* 105. f. 3. *Petiv. gazoph. t.* 105. f. 7. *Moris. hist.* 3. s. 14. t. 5. f. 14.

On wet shady rocks: Canada to Carolina. 4. July. v. v. This fern is highly ornamental to rock-works, and very singular in its striking root at the elongated points of the leaves.

angustifolium. 2. A. frondibus pinnatis, pinnis alternis, superioribus suboppositis, lineari-lanceolatis subrepandis, basi superiore truncatis, inferiore leviter rotundatis. *Willd. sp. pl.* 5. p. 313.

A. pycnocarpon. *Sprengel. anleit.* 3. p. 112.

Icon. *Schkuhr filic. t.* 67. 69. *Moris. hist.* 3. s. 14. t. 2. f. 25.

In shady woods, on the banks of rivers: western parts of New York and Pennsylvania. 4. July. v. v. A very elegant fern about a foot high.

ebeneum. 3. A. frondibus pinnatis, pinnis sessilibus lanceolatis serrulatis basi cordatis, sursum auriculatis. *Willd. sp. pl.* 5. p. 329.

A. polypodioides. *Swartz. synop. filic.* 79. 272.

A. trichomanoides. *Mich. fl. amer.* 2. p. 265.

Acrostichum platyneuron. *Sp. pl.* 1527. excl. *synon.*

Icon. *Schkuhr filic. t.* 73. *Pluk. alm. t.* 287. f. 2. et t. 89. f. 8. *Moris. hist.* 3. s. 14. t. 2. f. 12.

In clefts of rocks: New England to Carolina. 4. July. v. v. A small species.

melanocaulon. 4. A. frondibus pinnatis, pinnis subrotundis obtusis crenatis basi cuneatis, stipite discolore. *Willd. enum.* 1072. *Willd. sp. pl.* 5. p. 332.

A. trichomanes. *Mich. fl. amer.* 2. p. 264.

On rocks: Canada to Carolina. $\mathcal{U}$. July. *v. v.* Very small: stem polished, black.

5. *A. frondibus pinnatis, pinnis sessilibus lanceolatis acuminatis profunde pinnatifidis, laciniis oblongis obtusis obtuse-serratis, soris parallelis demum confluentibus.* *thelypteroides*.
—*Willd. sp. pl.* 5. p. 336.

A. acrostichoides. *Swartz. synop. filic.* 82. $\S$ 275.

Icon. *Schkuhr filic. t.* 76. *b.*

In shady woods on the sides of rivulets: Pennsylvania to Carolina. $\mathcal{U}$. July. *v. v.* Resembles *Aspidium Thelypteris* very much; it is from eighteen inches to two feet high.

6. *A. frondibus basi bipinnatis, apice simpliciter pinnatis, pinnulis rhombo-oblongis obtusis, apice obtuse denticulatis.* *Ruta muraria*.
Willd. sp. pl. 5. p. 341.

Icon. *Schkuhr filic. t.* 80. *b.* *Fl. dan.* 190.

In clefts of rocks: New York to Carolina. $\mathcal{U}$. July. *v. v.* The American plant is very small, scarcely ever exceeding an inch or two in height.

7. *A. frondibus glabris bipinnatis, pinnulis lanceolatis pinnatifidis, laciniis tri- vel bidentatis.*—*Willd. sp. pl.* 5. p. 342. *montanum*.

A. Adiantum nigrum. *Mich. fl. amer.* 2. p. 265.

In clefts of rocks, on the mountains of Virginia and Carolina. $\mathcal{U}$. July. *v. v.* A much smaller plant than *A. nigrum*, to which it has some resemblance.

728. SCOLOPENDRIUM. *Smith act. taur.* 5. p. 410.
t. 9. f. 2.

1. *S. frondibus lato-lanceolatis basi cordatis, stipite paleaceo.* *officinarium*.
Willd. sp. pl. 5. p. 348.

Asplenium Scolopendrium. *Sp. pl.* 1537.

Icon. *Schkuhr filic. t.* 83. *Pluk. phytogr. t.* 248. *f. 1.*

In shady woods, among loose rocks in the western parts New York, near Onondago, on the plantations of J. Geddis, Esq. $\mathcal{U}$. July. *v. v.* This species I have seen in no other place but that here mentioned, neither have I had any information of its having been found in any other part of North America.

729. PTERIS. *Gen. pl.* 1626.

- pedata*. 1. *P. frondibus profundissime quinquelobo-palmatis, lobis pinnatifidis, lacinii linearilanceolatis acutis, infima lobi intermedi utrinque pinnatifida, lobo intermedio basi longissime cuneato, sinubus acutis.*—*Willd. sp. pl.* 5. p. 358
Icon. Schkuhr filic. t. 100. *Plum. amer. t.* 34. *fil. t.* 152. *Petiv. filic. t.* 8. *f.* 12. *Pluk. alm. t.* 286. *f.* 5.
 On rocks: Virginia. $\mathcal{U}$. July. *v. s.* About six inches high.
- atropurpurea*. 2. *P. frondibus pinnatis, pinnis inferioribus ternatis pinnatifide lanceolatis obtusis, basi obtuse truncatis subcordatisve.* *Willd. sp. pl.* 5. p. 375.
- venosa*. α . *P. pinnulis subtus venosis, stipite angulato.*
Icon. Schkuhr filic. t. 101. *Pluk. mant. t.* 349. *f.* 1.
- punctata*. β . *P. pinnulis subtus punctatis, stipite terete.*
P. spiculata. Schkuhr filic. t. 100.
 In cleft of rocks: Pennsylvania to Carolina. $\mathcal{U}$. July. *v. v.* About a span high; grayish-green with dark purple stems.
- gracilis*. 3. *P. frondibus pinnatis, pinnis lanceolatis obtusis alternis sessilibus, inferioribus pinnatifidis, fertilibus integerrimis, sterilibus crenatis rotundato-obtusis.* *Willd. sp. pl.* 5. p. 376.
 On rocks in Canada. *Michaux.* $\mathcal{U}$. July. *v. s.* Not above four inches high; stems yellowish-green, smooth and shining.
- caudata*. 4. *P. fronde pinnato-tripartita, ramis sterilibus bipinnatis, pinnulis linearibus elongatis obtusis integerrimis, inferioribus bipinnatifidis, fructificantibus pinnatis, pinnis remotiusculis inferioribus basi pinnatifido-dentatis.*—*Willd. sp. pl.* 5. p. 401.
Icon. Jacq. ic. rar. 3. t. 645. *Plum. amer. t.* 22. *filic. t.* 29.
 In shady stony woods, on the side of rivulets: Pennsylvania to Carolina. $\mathcal{U}$. Aug. *v. v.*
- aquilina*. 5. *P. fronde pinnato-tripartita, ramis sterilibus bipinnatis, pinnis linearilanceolatis obtusis pinnatifido-dentatis, fructificantibus pinnatis, pinnulis pinnatifidis, lacinii acutiusculis, omnibus ciliatis.*—*Willd. sp. pl.* 5. p. 402.
Icon. Schkuhr filic. t. 95. 96. b. *Plum. filic. t.* A. *f.* 1.
 In dry barren woods: Canada to Florida. $\mathcal{U}$. Aug.

v. v. It deviates in some respects from the European plant, but is not sufficiently distinct to form a separate species, as it is well known how much the European species itself assumes different appearances in different soils.

730. VITTARIA. *Smith act. taur.* 5. p. 413. t. 9. f. 5.

1. *V. frondibus lineariibus longissimis pendulis, soris solitariis intra marginalibus.* *Willd. sp. pl.* 5. p. 404.

lineata.

V. angustifrons. *Mich. fl. amer.* 2. p. 261.

Pteris lineata. *Sp. pl.* 1530.

Icon. *Schkuhr filic.* t. 101. b. *Plum. amer. t.* 41. *filic.* t. 143. *Petiv. filic.* t. 14. f. 3.

On the banks of the rivulet Aisa-hatcha, Florida. *Michaux.* *¶.* +. The leaves resemble those of a common grass.

731. BLECHNUM. *Gen. pl.* 1627.

1. *B. frondibus sterilibus pinnatifidis, laciniis lanceolatis obtusiusculis parallelis, fructiferis pinnatis, pinnis linearibus acuminatis.* *Willd. sp. pl.* 5. p. 408.

boreale.

B. Spicant. *Roth. fl. germ.* 3. p. 44.

Onoclea Spicant. *Hoffm. fl. germ.* 2. p. 11.

Osmunda Spicant. *Sp. pl.* 1522.

Icon. *Schkuhr filic.* t. 110. *Fl. dan.* 99. *Bolt. filic.* t. 6. *Moris. hist.* 3. s. 14. t. 2. f. 23.

On the north-west coast. *M. Lewis.* *¶.* Aug. *v. s.* in *Herb. Lewis.*

2. *B. frondibus pinnatis, pinnis lanceolatis utrinque attenuatis basi decurrentibus argute serratis.* *Willd. sp. pl.* 5. p. 411.

serrulatum.

On the banks of the rivulet Aisa-hatcha, Florida. *Michaux.* *¶.* +.

732. WOODWARDIA. *Smith act. taur.* 5. p. 411. t. 9. f. 5.

1. *W. frondibus sterilibus pinnatifidis, laciniis lanceolatis repandis tenuissime serrulatis, fructiferis pinnatis, pinnis linearibus integerrimis acutis.* *Willd. sp. pl.* 5. p. 416.

onocleoides

W. angustifolia. *Smith act. taur.* 5. p. 411.

W. floridana. *Schkuhr filic.* p. 103. t. 111.

Onoclea nodulosa. *Mich. fl. amer.* 2. p. 272. *Swartz. synop. filic.* 111.

Acrostichum areolatum. *Sp. pl.* 1526.

Osmunda caroliniana. *Walt. fl. car.* 257.

Icon. *Schkuhr l. c.* *Pluk. phytogr. t.* 399. *f.* 1. *Moris. hist.* 3. s. 14. *t.* 2. *f.* 24.

In cedar and cypress-swamps: New Jersey to Florida.

¶. Aug. v. v. About a foot high.

virginica.

2. *W. frondibus glaberrimis pinnatis, pinnis sessilibus lanceolatis pinnatifidis, laciniis oblongis obtusis crenulatis, fructiferis elongatis, stipite glabro tereti.*—*Willd. sp. pl.* 5. p. 418.

W. Banisteriana. *Mich. fl. amer.* 2. p. 263.

Blechnum virginicum. *Mant.* 307.

Blechnum carolinianum. *Walt. fl. car.* 257.

Icon. *Pluk. alm. t.* 179. *f.* 2.

In swamps and shady woods: Virginia and Carolina. ¶.

July. v. v. Above a foot high.

thelypteroides.

3. *W. frondibus pinnatis, pinnis sessilibus basi villosis lineari-lanceolatis pinnatifidis, laciniis sterilium oblongis obtusiusculis, fertilium abbreviato-triangularibus acutis, omnibus integerrimis, stipite pubescente angulato.*

In sandy swamps: South Carolina, near Charlestown.

¶. July. v. v. Resembles the preceding, but is not half the size.

733. ADIANTUM. *Gen. pl.* 1633.

pedatum.

1. *A. fronde pedata, ramis pinnatis, pinnis dimidiatis oblongis lunatis margine superiore incis, laciniis sterilibus dentatis, fertilibus integerrimis, soris linearibus, stipite glabro.* *Willd. sp. pl.* 5. p. 438.

Icon. *Schkuhr filic. t.* 115. *Pluk. alm. t.* 124. *f.* 2. *Corn. canad. t.* 6.

In shady woods: Canada to Virginia. ¶. July. v. v.

A very elegant fern.

734. CHEILANTHES. *Swartz. synop. filic. p.* 5.

vestita.

1. *C. frondibus bipinnatis utrinque hirtis, pinnulis pinnatifidis, laciniis oblongis obtusis integerrimis, stipite rachibusque hirtis.* *Willd. sp. pl.* 5. p. 458.

Adiantum vestitum. *Sprengel. anleit.* 3. p. 122.

Aspidium lanosum. *Swartz. synop. filic. p.* 58.

Neprodium lanosum. *Mich. fl. amer.* 2. p. 270.

Icon. *Schkuhr filic. t.* 124.

On rocks : Pennsylvania to Virginia and on the Missouri.
 ♀. July. v. v. A handsome very small fern, covered
 with long brownish hair.

2. *C. frondibus triplicato-pinnatis, pinnulis ovalibus distinctis apice crenatis aut emarginatis subtus dealbatis.* *dealbata.*

On rocks, on the banks of the Missouri. ♀. July. v. s.
 A very delicate small fern, very much resembling
C. tenuifolia.

735. DICKSONIA. *L'Herit. sert. angl.* 30.

1. *D. frondibus bipinnatis, pinnulis oblongo-lanceolatis pinnatifidis, laciniis margine superiore inciso-dentatis, rachibus pilosiusculis.* *Willd. sp. pl. 5. p. 484.* *pilosiuscula.*

D. pubescens. *Schkuhr filic. p. 125. t. 131.*

Polypodium pilosiusculum. *Muhl. in litt.*

In shady woods, among rocks : Pennsylvania and Virginia.
 ♀. v. v. A foot or more high, resembling *Aspidium dilatatum*.

736. HYMENOPHYLLUM. *Smith act. taur. 5. p. 418.*

1. *H. frondibus pinnatis, pinnis infimis majoribus, superioribus sensim minoribus pinnatifidis, laciniis linearibus obtusis bifidis ciliatis, venis hirtis, rachi stipiteque alatis ciliatis.* *Willd. sp. pl. 5. p. 519.* *ciliatum.*

Trichomanes ciliatum. *Swartz. prodr.* 136.

In shady forests, on the trunks of old trees : Pennsylvania and Virginia. ♀. v. v.

V. HYDROPTERIDES.

737. ISOETES. *Gen. pl.* 1620.

1. *I. frondibus subulatis semiteretibus.* *Willd. sp. pl. 5. p. 534.* *lacustris.*

Icon. *Schkuhr filic. t. 173. Fl. dan. 191. Dill. musc. t. 80. f. 1.*

On rocks, on the bottom of rivers : New York, in the Oswego river, near the Falls. ♀. v. v. This singular plant, resembling a zoophyte, is about two inches high.

738. SALVINIA. *Gen. pl.* 1617.*natans.*

1. S. foliis ellipticis obtusis supra fasciculato-setosis, petiolis pilosis, fructibus subsessilibus aggregatis. *Willd. sp. pl.* 5. p. 536.

Marsilea natans. Sp. pl. 1562.

Icon. *Schkuhr filic. t.* 173. *Lam. illust.* 863.

Floating, like *Lemna*, on the surface of stagnant waters :
in several of the small lakes in the western parts of
New York and Canada. ☉. v. v.

739. AZOLLA. *Lam. encycl.* 1. p. 340.*caroliniana.*

1. A. foliis imbricatis ovato-oblongis obtusis patentibus sub-
tus rubris.—*Willd. sp. pl.* 5. p. 541.

Floating on the waters of Lake Ontario. ☉. v. v.
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<i>Bromus.</i>	<i>Brome-grass.</i>	85
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Flux-weed.	<i>Geranium maculatum.</i>	440
Fly-catch-bush.	<i>Bejaria.</i>	362
Fox-tail-grass.	<i>Alopecurus.</i>	65
Fringe-tree.	<i>Chionanthus.</i>	7
Full-fern.	<i>Acrostichum.</i>	658
Fumatory.	<i>Fumaria. Corydalis.</i>	463
Fuller's Thistle.	<i>Dipsacus.</i>	96
Garlic. Wild-	<i>Allium.</i>	222
Gentian.	{ <i>Gentiana.</i>	185
	{ <i>Triosteum.</i>	162
Germander.	<i>Teucrium.</i>	405
Ginger. Wild-	<i>Asarum.</i>	596
Ginseng.	<i>Panax.</i>	191
Glass-wort.	<i>Salicornia.</i>	2
Globe-flower.	<i>Trollius.</i>	391
Goat's Rue.	<i>Tephrosia.</i>	489
Golden-rod.	<i>Solidago.</i>	535
——— pert.	<i>Gratiola aurea.</i>	92
Goldilocks.	{ <i>Chrysocoma.</i>	517
	{ <i>Ranunculus Auricomus.</i>	391
Gooseberry.	<i>Ribes.</i>	163
Goose-foot.	<i>Chenopodium.</i>	197
———grass.	<i>Galium.</i>	102
Grape-vine.	<i>Vitis.</i>	169
Grass of Parnassus.	<i>Parnassia.</i>	208
—— Wrack.	<i>Zostera.</i>	2
Gravel-wort.	<i>Monarda punctata.</i>	18
Green Dragon.	<i>Arum Dracunculus.</i>	400
Gromwel.	<i>Iithospermum.</i>	131
Ground Ivy.	{ <i>Glichoma.</i>	408
	{ <i>Epigæa.</i>	297
Ground Pine.	{ <i>Lycopodium dendroideum.</i>	653
	{ <i>Ajuga Chamæpithys.</i>	404

Ground Cherry.	<i>Physalis.</i>	157
Groundsel.	<i>Senecio.</i>	528
——— tree.	<i>Baccharis.</i>	523
Guelder-rose, Ameri-	{ <i>Viburnum.</i>	201
can.		342
Gum-tree. Sour-	<i>Nyssa villosa.</i>	177
———, Sweet-	<i>Liquidambar.</i>	635
Hag-berry.	<i>Celtis.</i>	200
Hackmatack.	<i>Pinus pendula.</i>	639
Hair-grass.	<i>Aira.</i>	76
Hard-grass.	<i>Rottboellia.</i>	88
Hart's-tongue.	<i>Scolopendrium.</i>	667
Hawkweed.	<i>Hieracium.</i>	502
Hawthorn.	<i>Cratægus.</i>	376
Hazel-nut.	<i>Corylus.</i>	634
Heal-all.	{ <i>Galax.</i>	446
		171
Heart-seed.	<i>Viola clandestina.</i>	273
Heart's-ease.	<i>Cardiospermum.</i>	273
	<i>Viola.</i>	171
Heath. Yellow-	{ <i>Hudsonia.</i>	364
		376
Heliotrope.	<i>Hypericum densiflorum.</i>	130
Hellebore. Green-	<i>Heliotropium.</i>	242
Hemlock.	<i>Veratrum viride.</i>	195
———, Spruce-	<i>Conium.</i>	639
———, Water-	<i>Pinus canadensis.</i>	195
Hemp.	<i>Phellandrium.</i>	199
———, Indian-	<i>Cannabis.</i>	179
———, River-	<i>Apocynum.</i>	208
Henbane.	<i>Acnida.</i>	141
Henbit.	<i>Hyoscyamus.</i>	406
Heptree.	<i>Lamium amplexicaule.</i>	344
Herb Bennet.	<i>Rosa.</i>	351
——— Christopher.	<i>Geum.</i>	366
——— Robert.	<i>Actæa.</i>	449
High-taper.	<i>Geranium Robertianum.</i>	142
Hickory or Hickery.	<i>Verbascum.</i>	636
Hobble-bush.	<i>Juglans.</i>	201
Hog-nut.	<i>Viburnum lantanoides.</i>	638
——— weed.	<i>Juglans porcina.</i>	580
Holly.	<i>Ambrosia.</i>	117
Hone-wort.	<i>Ilex.</i>	194
Honey-suckle.	<i>Sison.</i>	160
———, Upright-	{ <i>Caprifolium.</i>	372
		151
Hoop-Ash.	<i>Azalea.</i>	200
	<i>Celtis.</i>	

Hop.	<i>Humulus.</i>	199
—— Hornbeam.	<i>Ostrya.</i>	623
Horehound.	<i>Marrubium.</i>	408
——— Water-	<i>Lycopus.</i>	16
Hornbeam-tree.	<i>Carpinus.</i>	623
Hornwort.	<i>Ceratophyllum.</i>	370
Horse-tail.	<i>Equisetum.</i>	651
Horse-weed.	<i>Collinsonia.</i>	20
Hound's-tongue.	<i>Cynoglossum.</i>	133
Huckleberry.	<i>Vaccinium.</i>	284
———, Bastard-	<i>Andromeda.</i>	290
Hyssop.	<i>Hyssopus.</i>	406
———, Hedge-	<i>Gratiola.</i>	12
Jacob's Ladder.	<i>Polemonium.</i>	151
Jalap.	{ <i>Ipomoea Jalapa.</i>	147
	{ <i>Convolvulus panduratus.</i>	143
Jasmine, Carolina-	<i>Gelsemium.</i>	184
Jesuit's Bark-tree, Bastard-	<i>Iva.</i>	580
Indian Corn	<i>Zea.</i>	46
——— Cucumber.	<i>Medeola.</i>	244
——— Fig.	<i>Cactus.</i>	327
——— Millet.	<i>Sorghum.</i>	78
——— Physic.	{ <i>Magnolia auriculata.</i>	382
	{ <i>Spiraea trifoliata.</i>	341
——— Rice.	<i>Zizania.</i>	60
——— Reed or Shot.	<i>Canna.</i>	585
Indigo.	<i>Indigofera.</i>	448
———, Bastard-	<i>Amorpha.</i>	466
Ink-berry.	<i>Prinos glaber.</i>	220
	{ <i>Asclepias tuberosa.</i>	183
Ipecacuanha.	{ <i>Euphorbia.</i>	605
	{ <i>Spiraea trifoliata.</i>	341
	{ <i>Ambrosia.</i>	580
Iron-weed.	{ <i>Verbena.</i>	415
—— wood.	<i>Ostrya.</i>	623
Judas-tree.	<i>Cercis.</i>	308
Juniper.	{ <i>Juniperus.</i>	646
	{ <i>Cupressus.</i>	645
Kidney Bean.	<i>Phaseolus.</i>	469
Knawel.	<i>Scleranthus.</i>	315
Knot-grass.	{ <i>Illecebrum.</i>	445
	{ <i>Polygonum aviculare.</i>	369
Ladies' Bedstraw.	<i>Galium.</i>	102
——— Mantle.	<i>Alchemilla.</i>	112

Ladies' Slipper.	<i>Cypripedium.</i>	594
——— Sneek.	<i>Cardamine.</i>	439
——— Traces.	<i>Neottia.</i>	589
Lamb's Quarters.	<i>Chenopodium viride.</i>	198
Larch-tree.	<i>Pinus penhula.</i>	639
Larkspur.	<i>Delphinium.</i>	371
Laurel.	<i>Laurus.</i>	275
———, Big-	<i>Magnolia grandiflora.</i>	380
———, Mountain-	<i>Rhododendron.</i>	297
———, Sheep-	<i>Kalmia angustifolia.</i>	296
———, Small-	——— <i>latifolia.</i>	
———, Swamp-	<i>Magnolia glauca.</i>	381
Lavender Cotton.	<i>Santolina.</i>	520
———, Sea-	<i>Statice.</i>	212
Leather-wood.	<i>Dryca.</i>	268
Lettuce.	<i>Lactuca.</i>	500
Lever-wood.	<i>Ostrya.</i>	623
Lily.	<i>Lilium.</i>	221
———, Water-	{ <i>Nymphæa.</i>	358
——— of the Valley.	{ <i>Nuphar.</i>	369
———, Atamasco-	<i>Corrallaria.</i>	232
Lime or Linden-tree.	<i>Amaryllis.</i>	222
Lion's-foot.	<i>Tilia.</i>	362
Liquorice.	<i>Prenanthes.</i>	449
Liver-wort.	<i>Glycyrrhiza.</i>	480
Lizard's-tail.	<i>Hepatica.</i>	391
Lobloolly-bay.	<i>Laurus.</i>	252
Locust-tree.	<i>Gordonia.</i>	451
———, Honey-	<i>Robinia.</i>	487
Loose-strife.	<i>Gleditschia.</i>	221
Loveage.	<i>Lysimachia.</i>	135
Louse-wort.	<i>Ligusticum.</i>	193
Lung-wort.	<i>Pedicularis.</i>	424
Lupine.	<i>Pulmonaria.</i>	130
Lyme-grass.	<i>Lupinus.</i>	487
	<i>Egimus.</i>	89
Madder.	<i>Rubia.</i>	102
Madwort.	<i>Alyssum.</i>	434
Mahogany.	<i>Betula lenta</i>	621
Maiden-hair.	<i>Adiantum.</i>	670
Mallow.	<i>Malva.</i>	454
Man's-beard.	<i>Andropogon.</i>	74
Maple-tree.	<i>Acer.</i>	265
Mare's-tail.	<i>Hippuris.</i>	3
Marjoram.	<i>Origanum.</i>	411

Martagon.	<i>Lilium.</i>	229
Marygold. Bur-	<i>Bidens.</i>	566
———, Marsh-	<i>Caltha.</i>	389
May-apple.	<i>Podophyllum.</i>	366
—— bush.	<i>Pyrus Botryatium.</i>	339
—— weed.	<i>Anthemis.</i>	562
Meadow-grass.	<i>Poa.</i>	72
—— rue.	<i>Thalictrum.</i>	388
—— sweet.	<i>Spiræa.</i>	388
Medick.	<i>Medicago.</i>	400
Melic-grass.	<i>Melica.</i>	77
Melilot.	<i>Melilotus.</i>	477
Mercury, American-	<i>Lobelia siphilitica.</i>	447
Milfoil.	<i>Achillea.</i>	562
——, Hooded-	<i>Utricularia.</i>	15
——, Water-	<i>Myriophyllum.</i>	274
Milk-weed.	<i>Prenanthes.</i>	498
—— wort.	<i>Polygala.</i>	464
Millet-grass.	<i>Milium.</i>	62
Mint.	<i>Mentha.</i>	405
——, Horse or Moun-	{ <i>Monarda.</i>	16
——, tain-		409
Mitre-flower.	<i>Pycnanthemum.</i>	409
Mistle-toe.	<i>Dodecatheon.</i>	136
Mocassin-flower.	<i>Triscum.</i>	114
Mocker-nut.	<i>Cypripedium.</i>	504
Mock Orange.	<i>Juglans.</i>	636
Monk's-hood.	<i>Philadelphus.</i>	329
Monkey-flower.	<i>Aconitum.</i>	372
Moon-seed.	<i>Mimulus.</i>	426
Moose-wood.	<i>Menispermum.</i>	370
Mou-e-ear Chickweed.	<i>Acer striatum.</i>	267
Mugwort.	<i>Cerastium.</i>	310
Mulberry.	<i>Artemisia vulgaris.</i>	322
Mullein.	<i>Morus.</i>	639
Mustard. Hedge-	<i>Ierbasum.</i>	142
——, Indian-	<i>Erysimum.</i>	436
——, Tower-	<i>Dentaria.</i>	438
Myrtle. Candleberry-	<i>Turritis.</i>	438
——, Wax-	{ <i>Myrica.</i>	620
——, Sand-		301
Nettle.	<i>Ammyrsine.</i>	301
——, Dead-	<i>Urtica.</i>	112
——, Hedge-	<i>Galeopsis.</i>	407
Nettle-tree.	<i>Stachys.</i>	407
	<i>Celtis.</i>	200

Nightshade.	<i>Solanum.</i>	156
———. Enchanter's-	<i>Circeæ.</i>	21
Nonsuch.	<i>Medicago Lupulina.</i>	490
Nut-grass.	<i>Cyperus.</i>	50
Oak.	<i>Quercus.</i>	625
Oat. Sea-side-	<i>Uniola.</i>	82
Oat-grass.	<i>Avena.</i>	85
Ogechee-lime.	<i>Nyssa candicans.</i>	177
Oil-nut.	{ <i>Hamiltonia.</i>	178
	{ <i>J. glans cinerea.</i>	636
Okro.	<i>Hiliscus esculentus.</i>	456
Olive-tree.	<i>Olea.</i>	7
Orache.	<i>Atriplex.</i>	199
Orchard-grass.	<i>Dactylis.</i>	84
Orpine.	<i>Sedum.</i>	323
Osier.	<i>Salix.</i>	608
———. Red-	<i>Cornus.</i>	109
Palmetto-tree.	<i>Chamærops.</i>	299
Palma Christi.	<i>Ricinus.</i>	602
Panic-grass.	<i>Panicum.</i>	60
Pansy.	<i>Viola tricolor.</i>	171
Papaw-tree.	<i>Porcelia.</i>	383
Parsley. Cow-	<i>Chærophylum.</i>	195
———. Milk-	<i>Selinum.</i>	192
———. piert.	<i>Alchemilla arvensis.</i>	112
Parsnep.	<i>Pastinaca.</i>	196
———. Cow-	<i>Herackum.</i>	192
———. Water-	<i>Sium.</i>	194
Partridge-berry.	<i>Gaultheria.</i>	283
Passion-flower.	<i>Passiflora.</i>	444
Paul's Betony.	<i>Veronica serpyllifolia.</i>	10
Pea.	<i>Pisum.</i>	470
Pearl-wort.	<i>Sagina.</i>	119
Pear.	<i>Pyrus.</i>	339
Pecan-nut.	<i>Juglans.</i>	636
Pellitory.	<i>Parietaria.</i>	114
Penny-cress.	<i>Thlaspi-arvense.</i>	435
—— royal.	<i>Hedeoma.</i>	414
—— wort.	<i>Hydrocotyle.</i>	190
Pepper-wort.	<i>Lepidium.</i>	435
——— root.	<i>Dentaria.</i>	438
——— vine.	<i>Cissus bipinnata.</i>	170
Persicaria.	<i>Polygonum.</i>	269
Persimon.	<i>Diospyros.</i>	265

Pig-nut.	<i>Juglans porcina.</i>	638
Pimpernel.	<i>Anagallis.</i>	135
———, Water-	<i>Samolus.</i>	158
Pine-tree.	<i>Pinus.</i>	639
Pink.	<i>Dianthus.</i>	314
Pink-root.	<i>Spigelia.</i>	139
———, Wild-	<i>Silene.</i>	315
Pipe-wort.	<i>Eriocaulon.</i>	91
Piperidge-bush.	<i>Berberis.</i>	219
Plane-tree.	<i>Platanus.</i>	635
Plantain.	<i>Plantago.</i>	98
———, Rattle-snake-	<i>Erigeron bellidifolium.</i>	532
———, Water-	<i>Alisma.</i>	352
Plum-tree.	<i>Prunus.</i>	329
Poison Elder.	<i>Aralia hispida.</i>	209
——— Oak.	<i>Rhus Toxicodendron.</i>	205
Poke-root.	<i>Phytolacca.</i>	324
Pond-weed.	<i>Potamogeton.</i>	120
———, Horned-	<i>Zannichellia.</i>	4
———, Tassel-	<i>Ruppia.</i>	121
Poplar-tree.	<i>Populus.</i>	618
———, White-	<i>Liriodendron.</i>	382
Poppy.	<i>Papaver.</i>	365
Prickly-pear.	<i>Cactus.</i>	327
Prim.	<i>Ligustrum.</i>	7
Prince's Feather.	<i>Amaranthus.</i>	207
Privet.	<i>Ligustrum.</i>	7
Puccoon.	{ <i>Sanguisorba.</i>	116
	{ <i>Batschia.</i>	132
Purslane.	<i>Portulacca.</i>	365
———, Water-	<i>Peplis.</i>	238
Quaking Grass.	<i>Briza.</i>	82
Quamash.	<i>Phalangium.</i>	226
Rag-weed.	<i>Erigeron.</i>	532
—— wort.	<i>Senecio.</i>	528
Raspberry.	<i>Rubus.</i>	346
Rattle-pea.	<i>Crotalaria.</i>	469
Rattle-snake's-master.	<i>Liatris squarrosa.</i>	509
——— plantain.	<i>Erigeron bellidifolium.</i>	532
——— root.	<i>Polygala.</i>	464
——— weed.	{ <i>Sonchus floridanus.</i>	501
	{ <i>Prenanthes.</i>	498
Red-root.	{ <i>Ceanothus.</i>	167
	{ <i>Lewisia.</i>	368

Reed-grass.	<i>Arundo.</i>	85
— mace.	<i>Typha.</i>	34
Rib-fern.	<i>Blechnum.</i>	669
— wort.	<i>Plantago lanceolata.</i>	98
Rice. Canada-	<i>Zizania.</i>	60
— Mountain-	<i>Oryzopsis.</i>	69
Rock Rose.	<i>Helianthemum.</i>	363
Rocket.	<i>Hesperis.</i>	436
— Sea-	<i>Cakile.</i>	434
Rose.	<i>Rosa.</i>	344
Rose Bay.	<i>Rhododendron.</i>	297
Rosemary. Wild-	<i>Andromeda polifolia.</i>	291
Rush.	<i>Juncus.</i>	235
Rye.	<i>Secale.</i>	90
— Wild-	<i>Elymus.</i>	89
Saca-commis.	<i>Arbutus Uva ursi.</i>	283
Sage.	<i>Salvia.</i>	19
St. Andrew's Cross.	<i>Acyrum.</i>	373
St. Parnaby's Thistle.	<i>Centaurea solstitialis.</i>	576
St. John's-wort.	<i>Hypericum.</i>	374
St. Peter's-wort.	<i>Symphoria.</i>	162
Salt-wort.	<i>Salicornia.</i>	2
— Black-	<i>Salsola.</i>	197
Samphire.	<i>Glaux.</i>	176
Sand-wort.	<i>Salicornia.</i>	2
	<i>Arenaria.</i>	317
Sarsaparilla.	<i>Arutia nudicaulis.</i>	209
	<i>Smilax.</i>	249
	<i>Menispermum.</i>	370
Sassafras-tree.	<i>Laurus Sassafras.</i>	277
— Swamp-	<i>Magnolia glauca.</i>	381
Savin.	<i>Juniperus Satina.</i>	646
Saxifrage.	<i>Saxifraga.</i>	310
— Golden-	<i>Chrysosplenium.</i>	269
— Meadow-	<i>Seseli.</i>	197
Scorpion-grass.	<i>Myosotis.</i>	133
Scull-cap.	<i>Scutellaria.</i>	412
Scunk-weed.	<i>Pothos.</i>	398
— cabbage.		
Sea-mat-grass.	<i>Arundo arenaria.</i>	87
Self-heal.	<i>Prunella.</i>	411
Sensitive-fern.	<i>Onoclea.</i>	665
— pea.	<i>Cassia nicticans.</i>	305
— briar.	<i>Schrankia.</i>	365
Sedge.	<i>Carer.</i>	34
	<i>Schaenus</i>	47

Seneca Grass.	<i>Holcus fragrans.</i>	78
Sengreen.	<i>Saxifraga nivalis.</i>	310
Service-tree.	{ <i>Sorbus.</i>	341
	{ <i>Pyrus.</i>	339
Shave-grass.	<i>Equisetum hyemale.</i>	651
Shell- or Shag-bark.	<i>Juglans alba.</i>	637
Sheep-berry.	<i>Viburnum prunifolium.</i>	201
Shepherd's-purse.	<i>Thlaspi.</i>	435
Shield-fern.	<i>Aspidium.</i>	660
Side-saddle-flower.	<i>Sarracenia.</i>	367
Silver-tree.	<i>Elæagnus.</i>	114
—— bell tree.	<i>Halesia.</i>	449
Snake-root.	<i>Aristolochia.</i>	596
——. Black-	<i>Cimicifuga Serpentaria.</i>	372
——. Button-	<i>Liatris.</i>	507
——. Plantain-	<i>Erigeron bellidifolium.</i>	532
—— Fern.	<i>Botrychium.</i>	655
—— weed.	<i>Polygonum bistortoides.</i>	271
Snap-dragon.	<i>Antirrhinum.</i>	421
Sneeze-wort.	{ <i>Achillea Ptarmica.</i>	562
	{ <i>Convallaria.</i>	232
Snow-berry.	<i>Chiococca.</i>	160
Snow-drop-tree.	<i>Halesia.</i>	449
—— flock-tree.	{ <i>Chionanthus.</i>	7
—— flower.		
Soap-berry.	<i>Sapindus.</i>	274
—— wort.	<i>Saponaria.</i>	314
Solomon's Seal.	<i>Polygonatum.</i>	234
Sorrel.	<i>Rumex.</i>	247
—— tree.	<i>Andromeda arboresc.</i>	295
Spear-wort.	<i>Ranunculus Lingua.</i>	391
Speedwell.	<i>Veronica.</i>	10
Spice-wood.	<i>Laurus Benzoin.</i>	276
Spider-wort.	<i>Tradescantia.</i>	218
Spikenard.	<i>Aralia racemosa.</i>	209
Spindle-tree.	<i>Evonymus.</i>	168
Spleen-wort.	<i>Asplenium.</i>	665
Spoon-wood.	<i>Tilia.</i>	362
Spring-grass.	<i>Anthoxanthum.</i>	65
Spruce-pine.	<i>Pinus.</i>	639
Spurrey.	<i>Spergula.</i>	320
Staff-tree.	<i>Celastrus.</i>	167
Star-wort.	{ <i>Aster.</i>	543
	{ <i>Aletris.</i>	225
	{ <i>Melanthium dioicum.</i>	242
——. Water-	<i>Callitriche.</i>	3

Stitch-wort.	<i>Stellaria.</i>	317
Stock.	<i>Cheiranthus.</i>	436
Stone-crop.	<i>Sedum.</i>	323
Stramonium.	<i>Datura.</i>	141
Strawberry.	<i>Fragaria.</i>	357
——— Blite.	<i>Blitum.</i>	4
——— tree.	<i>Arbutus.</i>	282
Succory.	<i>Cichorium Intybus.</i>	496
——— Gum-	<i>Chondrilla.</i>	497
Sugar-cane. Wild-	<i>Saccharum.</i>	73
Sugar-tree.	<i>Acer saccharinum.</i>	266
Sumach.	<i>Rhus.</i>	204
Sun-dew.	<i>Drosera.</i>	210
——— drop.	<i>Oenothera fruticosa.</i>	262
——— flower.	<i>Helianthus.</i>	570
——— Tick-seed-	<i>Coreopsis.</i>	567
Supple Jack.	<i>Zizyphus.</i>	188
Swallow-wort.	<i>Asclepias.</i>	180
Sweet-bay.	{ <i>Laurus.</i>	275
——— briar.	{ <i>Magnolia glauca.</i>	381
——— fern-bush.	<i>Rosa.</i>	344
——— gale.	<i>Comptonia.</i>	635
——— leaf.	<i>Myrica</i>	620
——— scented shrub.	<i>Hopea.</i>	451
Sycamore.	<i>Calycanthus.</i>	357
Tacamahac.	<i>Platanus.</i>	635
Tallow-tree.	<i>Populus balsamifera.</i>	618
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<i>Styrax.</i>	ii. 548)	450	<i>Trifolium.</i>	ii. 576)	477
<i>Sueda.</i>		197	<i>Trifolium.</i>	475, 480, 486	
<i>Swertia.</i>	i. 126)	100	<i>Triglochin.</i>	i. 324)	247
<i>Swertia.</i>		138	<i>Trillium.</i>	i. 322)	244
<i>Syena.</i>	i. 41)	32	<i>Triosteum.</i>	i. 203)	162
<i>Symphoria.</i>	i. 201)	162	<i>Tripsacum.</i>	i. 105)	88
<i>Symplocos.</i>		451	<i>Tripterella.</i>	i. 34)	28
<i>Syntherisma.</i>	69, 70		<i>Trisetum.</i>	i. 87)	76
			<i>Triticum.</i>	i. 109)	90
<i>Tabernemontana.</i>		184	<i>Trollius.</i>	ii. 463)	391
<i>Tagetes.</i>		559	<i>Troximum.</i>	ii. 604)	505
<i>Talinum.</i>	ii. 427)	365	<i>Tukiflora.</i>		13
<i>Tanacetum.</i>	ii. 622)	522	<i>Turritis.</i>	ii. 531)	438
<i>Taxus.</i>	ii. 711)	647	<i>Turnera.</i>	i. 264)	206
<i>Tecoma.</i>		420	<i>Tussilago.</i>	ii. 632)	531
<i>Tephrosia.</i>	ii. 590)	489	<i>Tussilago.</i>		577
<i>Tetragonotheca.</i>	ii. 647)	563	<i>Typha.</i>	i. 46)	34
<i>Teucrium.</i>	ii. 472)	405			
<i>Teucrium.</i>		404	<i>Ulmus.</i>	i. 258)	199
<i>Thalia.</i>	ii. 669)	584	<i>Uniola.</i>	i. 95)	82
<i>Thalictrum.</i>	ii. 458)	388	<i>Uniola.</i>		84
<i>Thalictrum.</i>		387	<i>Urtica.</i>	i. 141)	112
<i>Thapsia.</i>		196	<i>Utricularia.</i>	i. 23)	15
<i>Thesium.</i>	i. 218)	177	<i>Uvularia.</i>	i. 302)	231
<i>Thlaspi.</i>	ii. 526)	435	<i>Uvularia.</i>		232
<i>Thuya.</i>	ii. 709)	646			
<i>Thymbra.</i>		414	<i>Vaccinium.</i>	i. 357)	284
<i>Thymus.</i>	ii. 491)	413	<i>Vaccinium.</i>	263, 283	
<i>Thymus.</i>	409, 413, 414		<i>Vaginarina.</i>	i. 61)	58
<i>Tiarella.</i>	i. 381)	313	<i>Valantia.</i>		102
<i>Tigarea.</i>	i. 405)	333	<i>Valeriana.</i>	i. 32)	28
<i>Tilia.</i>	ii. 424)	362	<i>Valeriana.</i>		28

Vallisneria.	ii. 681)	602	Woodsia.	ii. 723)	660
Veratrum.	i. 319)	242	Woodwardia.	ii. 732)	669
<i>Veratrum.</i>		243	<i>Wurmbea.</i>		225
Verbascum.	i. 182)	142			
Verbena.	ii. 497)	415	Xanthium.	ii. 667)	581
<i>Verbena.</i>		417	Xylosteum.	i. 200)	161
Verbesina.	ii. 651)	564	Xyris.	i. 44)	33
<i>Verbesina.</i>		561			
Vernonia.	ii. 610)	511	Yucca.	i. 298)	227
Veronica.	i. 18)	10			
Viburnum.	i. 260)	201	Zamia.	ii. 712)	648
Vicia.	ii. 569)	471	Zannichellia.	i. 9)	4
Villarsia.	i. 174)	139	Zanthorrhiza.	i. 276)	212
<i>Vincetoxycum.</i>		179	Zanthoxylum.	i. 271)	209
Viola.	i. 214)	171	Zapania.	ii. 498)	417
Virgilia.	i. 378)	309	<i>Zapania.</i>		416
<i>Virgilia.</i>		572	Zea.	i. 49)	46
Viscum.	i. 143)	114	Zigadenus.	i. 318)	241
Vitis.	i. 209)	169	Zinnia.	ii. 652)	565
<i>Vitis.</i>		170	Zizania.	i. 68)	60
Vittaria.	ii. 730)	669	Zizyphus.	i. 232)	188
<i>Vogelia.</i>		29	Zornia.	ii. 582)	484
			Zostera.	i. 1)	2
Wendlandia.	i. 330)	252			

SUPPLEMENTUM.

- Lycopus exaltatus*.—L. foliis basi pinnatifido-serratis, laciniis integerrimis subserratisque, calycibus spinescentibus.—*Willd. sp. pl.* 1. p. 121. page 16.
 Icon. *Fl. græc. t.* 12.
 In low shady woods : Virginia to Carolina ; rare. $\mathcal{U}$. July, Aug. *v. v.* ; *v. s.* in *Herb. Sherard*. From three to six feet high. This species I omitted for want of a specimen in my Herbarium, though I found it myself in Virginia ; but seeing a specimen of Catesby's in the Sherardian Herbarium, I was convinced of its being a real American species.
- Monarda rugosa*.—M. glabriuscula ; capitulis mediocribus subsimplicibus, bracteis exterioribus ovatis undulatis pilosis, calycibus corollisque glabris, lacinia media labii inferioris bidentata, foliis ovatis subcordatis acutis rugosis, nervis subtus petiolisque pilosis, caule acutangulo glabriusculo.—*Willd. sp. pl.* 1. p. 125. p. 17.
 In Canada and on the mountains of Virginia. $\mathcal{U}$. July—Sept. *v. v.* in *Hort. Lambert*. About four feet high ; flowers small, white.
- Valeriana dioica*.—V. glabra ; foliis radicalibus subspathulato-ovatis integris longissime petiolatis, caulinis paucis pinnatifidis, laciniis lanceolatis integerrimis subdentatisque obtusiusculis.—*Willd. sp. pl.* 1. p. 176. p. 28.
 Icon. *Fl. dan.* 687.
 In swamps at Hudson's Bay. *Tilden*. $\mathcal{U}$. June. *v. s.* in *Herb. Sherard*. About a span high ; flowers flesh-coloured.
- Fedia chenopodifolia*.—F. dichotoma ; foliis ovatis acutis inferne dentatis, cymis nudis divaricato-dichotomis, filamentis longis.

Valeriana virginiana, pedis anserinæ folio. *Pet. H. S. in Herb. Sherard.*

In Virginia. ☉. *v. s. in Herb. Sherard.* About a span high; flowers the size of *V. officinalis*.

- p. 72. *Aristida pallens*.—A. culmo erecto simplici, foliis filiformibus, radicalibus culmo brevioribus, panicula pauciflora, pedicellis alternis brevibus bifloris, aristis elongatis.—*Cav. ic. 5. t. 468. f. 2.*

In Upper Louisiana. *Bradbury. 4. v. s. in Herb. Bradbury.* About a foot high; the awns more than three inches high.

- p. 73. *Stipa membranacea*.—S. foliis convoluto-filiformibus glabris, panicula laxa, pedicellis flexuosis, calycibus membranaceis 3-nervibus longe acuminatis, corollis calyce brevioribus sericeo-villosis, villis corollam superantibus, arista nuda recta calyce paulo longiore.

On the banks of the Missouri. *Bradbury. v. s. in Herb. Bradbury.* About eighteen inches high; flowers oval, covered with long silky hair.

- p. 85. *Bromus altissimus*.—B. panicula nutante, spiculis oblongis sub-6-floris, flosculis pubescentibus, valvula exteriori 3-nervata breviter aristata, foliis vaginisque glabris, culmo glabro altissimo.

On the banks of the Missouri. 4. July, Aug. *v. v. in Hort. Lambert.* From five to eight feet high.

- p. 88. *Cynosurus secundus*.—C. glaber; foliis linearibus, spica elongata unilateralis, spiculis solitariis, defloratis reflexis, calycibus lineari-lanceolatis acutissimis.

In Upper Louisiana. *Bradbury. v. s. in Herb. Bradbury.* Resembles *C. retroflexus* very much.

- p. 97. *Allionia linearis*.—A. caule erecto tereti, foliis linearibus subcarnosis, floribus racemosis, pedicellis aggregatis, staminibus longissime exertis.

Calymenia angustifolia. Fraser Catal. 1813.

In Upper Louisiana. *Bradbury. v. s. in Herb. Bradbury.*

- Allionia hirsuta*.—A. caule erecto angulato, foliis lanceolatis nervosis utrinque hirsutis, calycibus hirsutissimis sub-3-floris.

In Upper Louisiana. *Bradbury. v. s. in Herb. Bradbury.*

- Plantago elongata*.—P. foliis linearibus integerrimis glabris, scapo spicis elongatis subimbricatis foliis longioribus, bracteis ovatis acutis margine membranaceis.
In Upper Louisiana. *Bradbury. v. s. in Herb. Bradbury.* Resembles *P. pauciflora*. p. 99.
- Pulmonaria lanceolata*.—P. glabra, erecta; foliis radicalibus longissime pedicellatis lanceolatis, caulinis lineariblongis, floribus subpaniculatis, calycibus abbreviatis.
In Upper Louisiana. *Bradbury. 4. v. s. in Herb. Bradbury.* Flowers small, resembling those of *P. paniculata*. p. 131.
- Pulmonaria sibirica*.—P. calycibus abbreviatis, foliis radicalibus cordatis. *Willd. sp. pl. 1. p. 770.*
Anchusa. Gmel. sib. 4. p. 75. no. 15. t. 39.
In Canada. *Masson. 4. July. v. s. in Herb. Lambert.* Flowers purple, in terminal corymbs; it resembles *P. virginica* very much.
- Cynoglossum glomeratum*.—C. hispidum; foliis spathulatis obtusis, floribus glomeratis. p. 133.
C. glomeratum. *Fraser. catal. 1813.*
In Upper Louisiana. *Bradbury. 4. v. s. in Herb. Bradbury.*
- Lysimachia lanceolata*.—L. glaberrima; foliis quaternis subpetiolatis lanceolatis promissa acuminatis, pedunculis quaternis multifloris, floribus summis racemosis, corollæ laciniis ovatis acutis, caule erecto simplici. p. 135.
L. caroliniana quadrifolia, foliis acutis. *Herb. Sherard.*
In Carolina *Catesby. 2. v. s. in Herb. Sherard.* Flowers the size of *L. vulgaris*.
- Calystegia Catesbeiana*.—C. volubilis, tomentosa; foliis oblongis sagittatis acuminatis, pedunculis unifloris folio brevioribus, bracteis ovalibus obtusis calyce longioribus. p. 143.
In Carolina. *Catesby. v. s. in Herb. Sherard.* Flowers large, purple.
- Calystegia paradoxa*.—C. humifusa, tomentosa; foliis oblongis cordato-sagittatis acutis, pedunculis unifloris elongatis folio longioribus, bracteis a flore remotis linearibus, calycibus nudis glabris acuminatis.
Convolvulus virginianus, læviter hirsutis et oblongis foliis, flore maximo albicante. *Pluk. mant. 54. secundum Herb. Sherard.*

In Virginia or Carolina. *v. s. in Herb. Sherard.* Flowers large, white.

p. 143. *Convolvulus Sherardi*.—*C. humifusus*, pubescens; foliis ellipticis utrinque retusis mucronatis, floribus solitariis subsessilibus.

C. forte monococco Banist. similis, sed vasculis sessilibus. *Herb. Sherard.*

In Carolina. *Catesky.* ☉. *v. s. in Herb. Sherard.* Resembles *C. trichosanthes* very much; I have only seen a specimen with fruit.

p. 147. *Cantua parviflora*.—*C. pubescens*, diffusa; foliis pinnatifidis, laciniis linearibus elongatis, pedunculis solitariis unifloris terminalibus et oppositifoliis, corollis calyce vix longioribus.

Ipomopsis inconspicua. *Smith exot. bot. 1. t. 14.*

In North America. *Hoy.* ☉. June. *v. v. in Hortis.* Flowers small, pale blue. I insert this plant on the authority of Exotic Botany; but at the same time I doubt very much of its being a native of North America, and more strongly suspect it to come from Mexico.

p. 148. *Phlox acuminata*.—*P. erecta*, pubescens; caule angulato, foliis ovato-lanceolatis acuminatis inferne angustatis subpetiolatis subtus pubescentibus, floralibus subcordatis, corymbis paniculatis, corollæ laciniis rotundatis, tubo pubescente, calycibus aristatis.

Phlox decussata. *Lyon catal. 1812.*

On the mountains of Georgia and South Carolina. *Lyon.* ½. Aug. Sept. *v. v. in Hort. Lambert.* From four to five feet high; flowers very handsomely variegated, with dark and light shades of purple.

p. 149. *Phlox nitida*.—*P. erecta*, glaberrima; caule tereti maculato lævigato, foliis ovato-oblongis subcarnosis supra nitidis atrovirentibus, subtus pallidis, corymbis fastigiatis, ramis inferioribus elongatis nudiusculis, corollæ laciniis lato-obovatis subretusis, dentibus calycinis lanceolatis mucronatis.

P. suffruticosa. *Hortul.*

In South Carolina. *Fraser.* ½. Aug.—Oct. *v. v. in Hortis.* Near two feet high; flowers of a brilliant purple, which is deeper than in any other species. This species approaches near to *P. Carolina*; but besides its other characters it distinguishes itself very easily by flowering later and longer than that species.

Solanum heterandrum.—*S. annuum* ; caule foliisque aculeatis, foliis ovatis pinnatifidis utrinque hirsutis, laciniis obtusiusculis, antheris declinatis distantibus, ima corniformi productiore, bacca calyce echinato inclusa.

Icon. *Tab. 7.*

The present description has been taken from a living plant raised by A. B. Lambert, Esq. from seeds received of Mr. Nuttall. The native specimen the former description was made from was very imperfect.

Physalis somnifera.—*P. perennis*, tomentosa ; foliis ovatis integerrimis, floribus confertis brevissime pedicellatis, corollis campanulatis. *Willd. sp. pl. 1. p. 1019.*

Icon. *Cav. ic. 2. t. 103.*

In South Carolina. *Catesby. 4. July. v. s. in Herb. Sherard.* Flowers small, brownish-yellow.

Campanula nitida.—*C. glaberrima* ; foliis radicalibus spatulato-oblongis coriaceis cartilagineo-crenatis, caulinis lanceolato-oblongis subintegerrimis, floribus racemosis, corollis campanulato-rotatis.—*Willd. sp. pl. 1. p. 890.*

C. americana minor, flore cœruleo patulo. *Rob. ic.*

In North America. *4. July. v. s. in Herb. Lambert. nec non Sherard.* About a span high ; flowers middle size, fine blue. What part of America it is from is not known, but I suppose it to be Hudson's Bay. Misled by Michaux, this plant had been inserted as a synonym to *C. acuminata*, with which it has not the least connection.

Ribes laeflorum.—*R. inerme* ; foliis cordatis 5-lobis incidentatis glabris, petiolis gracilibus, racemis laxis erectis longitudine foliorum, bracteis subulatis, pedicellis elongatis, calycibus campanulato-tubulatis, baccis globosis hispidis.

On the north-west coast. *Menzies. 2. v. s. in Herb. Banks.* The flowers appear to be yellow, about the size of *R. floridum*.

Ribes speciosum.—*R. sub gemmis 3-plicato-aculeatum* ; foliis cuneato-subrotundis inciso-crenatis glabris nervosis subtus pallidioribus, petiolis brevibus, pedunculis sub-3-floris foliis longioribus, pedicellis germinibusque glanduloso-pilosis, calycibus tubulatis pedicellis longioribus, staminibus longissime exsertis.

On the north-west coast. *Menzies. 2. v. s. in Herb. Banks.* The younger branches are hispid ; the flowers

p. 156.

p. 157.

p. 159.

p. 163.

p. 165.

large, purple. The leaves are small, and have some resemblance to those of *Thalictrum*.

- p. 165. *Ribes Menziesii*.—*R. sub gemmis 3-plicato-aculeatum*; ramis hispidissimis, foliis basi truncatis sub-5-lobis inciso-dentatis, lobis lateralibus brevioribus, subtus tomentosis, pedunculis subbifloris foliis subæquantibus, calycibus tubulosis: limbo patente, staminibus longitudine calycis, stylo exerto, baccis globosis aculeatis.
On the north-west coast, near Fort Trinidad. *Menzies*.
h. v. s. in Herb. Banks. The flowers of the size and colour of *R. sanguineum*.
- p. 173. *Viola asarifolia*.—*V. acaulis, pubescens*; foliis dilatato-reniformibus acutis circumcirca crenato-dentatis basi flabellatim in petiolum attenuatis, pedunculis foliis multo brevioribus.
Viola caroliniana maxima, foliis cucumerinis, floribus ad radicem pediculis brevibus natis. *Herb. Sherard*,
In low rich woods: Virginia to Carolina. *Catesby*. *¶*.
May. *v. s. in Herb. Sherard.* I have seen this species several times in Virginia, but generally without flowers; which has been the reason that no specimen was in my collection.
- p. 190. *Hydrocotyle ambigua*.—*H. folio radicali composito, caule subaphyllo 2-3-umbellifero, umbellulis sub-3-floris, petalis lanceolatis.*
In Upper Louisiana. *Bradbury. v. s. in Herb. Bradbury.*
A very small plant; flowers in proportion large, white, with purple anthers; resembling *H. composita*.
- p. 192. *Selinum acaule*.—*S. glabrum, acaule*; foliis bipinnatis, foliolis linearibus superioribus confluentibus, scapis radicalibus foliis brevioribus, umbellulis radii masculis.
In Upper Louisiana. *Bradbury. ¶. v. s. in Herb. Bradbury.* Not above two or three inches high; the seeds resembling those of *Pastinaca sativa*.
- p. 197. *Seseli divaricatum*.—*S. caule ramosissimo divaricato, foliis bipinnatifidis, laciniis lanceolatis incisis, involucris nullis, involucellis linearibus.*
In Upper Louisiana. *Bradbury. v. s. in Herb. Bradbury.*
Resembles *S. tortuosum* very much.
- p. 223. *Allium cernuum*.—*A. scapo nudo tetragono umbellifero, foliis linearibus planiusculis, umbella cernua, staminibus simplicibus, germine sex-dentato.* *Roth in Annals of bot. 2. p. 27.*

Icon. *Cat. bot. fasc. 2. t. 2. Bot. mag.* 1324.

On the mountains of Virginia and Carolina. *W.* July, Aug. *v. v.* Flowers large, rose-coloured, sweet-scented; the leaves have scarcely any scent.

p. 233.

Smilacina stellata, *B.* uniflora.—*S.* foliis subfalcato-lanceolatis glabriusculis, caule unifloro.

Polygonatum monanthemum, flore parvo erecto. *Sherard. Herb.*

In Hudson's Bay. *Tilden. W. v. s. in Herb. Sherard.* As I have seen but one individual specimen, I consider it only as a variety, though it is probable it may be a distinct species.

Helonias graminea.—*H.* scapo folioso paniculato, racemis divaricatis, bracteolis ovatis pedicellis longioribus, petalis oblongis acuminatis, staminibus corolla triplo brevioribus, foliis linearibus canaliculatis subtus glaucis.—*Bot. mag.* 1599.

p. 243.

On the mountains of Georgia. *Lyon. W. Aug. v. s. in Herb. Lyon.* This species has a strong affinity with *Nolina Georgiana*.

p. 248.

Rumex venosus.—*R.* valvulis maximis integerrimis reticulato-venosis, foliis lanceolatis integerrimis parallelo-venosis.

In Upper Louisiana. *Bradbury. W. v. s. in Herb. Bradbury.* The seeds resemble those of *R. vesicarius*.

p. 249.

Smilax circidifolia.—*S.* aculeata; foliis inermibus orbiculato-cordatis acuminatis 5-nerviis utrinque glabris reticulato-venosis breviter petiolatis.

S. floridana; viticulis spinosis judaicae arboris folio maximo cordato. *Pluk. amalth.* 194.

In South Carolina. *Catesby. h. v. s. s. fl. in Herb. Sherard.* Though the description was taken from a specimen without flowers, I am convinced of its being a distinct species from any one described.

p. 260.

Gaura coccinea.—*G.* sericeo-pubescent; foliis lineari-lanceolatis subdenticulatis, spica conferta, petalis longitudine calycis, stigmatibus subintegro.

G. coccinea. Fraser. catal. 1813.

In Upper Louisiana *Bradbury. v. s. in Herb. Bradbury.* About a span high; flowers smaller than *G. biennis*, scarlet. In the Catalogue quoted this plant is marked as a perennial, but by the appearance of the specimen I should take it to be only annual.

Oenothera albicaulis.—*O.* tenuissime pubescens; caule nervisque foliorum albidis, foliis pinnatifidis, laciniis diva-

p. 262.

ricatis, floribus subspicatis, germinibus sessilibus cylindraceis, staminibus corolla brevioribus, petalis obcordatis.

O. albicaulis. *Fraser. catal.* 1813.

In Upper Louisiana. *Bradbury.* ♂. *v. s. in Herb. Bradbury.* Not above four inches high; flowers large, white. This species is intermediate between *O. tetraptera* and *O. sinuata*.

Oenothera Fraseri.—*O. glabriuscula*; caule inferne simplici, superne ramuloso, foliis ovatis petiolatis glanduloso-denticulatis, racemis foliosis, capsulis pedicellatis obovatis 4-gonis.

In South Carolina. *Fraser.* ♀. June, July. *v. v. in Hortis.* This species approaches so near to *O. fruticosa* that it is difficult to define the distinction, though their other habits are so very different. The present species flowers a short time, the stems decay, and form immediately a tuft of large radical leaves. *O. fruticosa* flowers till late in autumn, and never shows its radical leaves in that manner. The differentia specifica of *O. fruticosa* will be *O. fruticosa*, tenue pubescens; caule a basi ramosa, divaricata, foliis sessilibus lanceolatis subdentatis acutis, capsulis pedicellatis oblongo-clavatis angulatis.

Oenothera macrocarpa.—*O. glabriuscula*; caule ramoso, foliis lanceolatis, petiolatis, distanter glanduloso-denticulatis margine nervisque sericeo-albidis, petalis cum acumine obcordatis, capsulis ellipticis 4-alatis brevissime pedicellatis.

O. missouriensis. *Bot. mag.* 1592.

On the banks of the Mississippi, near St. Louis. ♂. July—Oct. *v. v. in Hort. Lambert.* This species exceeds in size and beauty of its flowers any other one known; they are of a bright yellow, very large, and open about five o'clock in the evening. The calyx is covered with a very fine and white silky down, and is spotted with purple. The figure in the Botanical Magazine is apparently taken from a very weak and starved plant: the flowers of those in possession of A. B. Lambert, Esq., were nearly six inches in diameter, and the tube nearly seven inches long. There is an inequality on the edges of the petals, but by no means can it be called serrulate, which term has been introduced in the differentia specifica, and strongly but erroneously expressed in the figure. The specific name given there is inapplicable, as it never was found any where else,

but near St. Louis, where Mr. Nuttall gathered the ripe fruits of it, specimens of which I have seen.

Oenothera caespitosa — *O. acaulis* ; foliis lanceolatis inciso-dentatis, capsulis oblongis sessilibus, calycis tubo longissimo, petalis bilobis distantibus. *Sims in Bot. mag.* 1593. p. 263.

O. scapigera. *Fl. amer. sept.* 1. p. 263.

On the banks of the Missouri. *Lewis*. ♀. June. July. *v. v. in Hort. Fraser* ; *v. s. specimen imperfectum in Herb. Lewis*. This singular species resembles *O. acaule* of Cavanilles. The flowers open in the evening, are white, changing to red, and of an agreeable scent. The erroneous description given in the place above quoted was owing to a very imperfect specimen in the Lewisian collection.

Eriogonum pauciflorum. — *E. caule simplici basi folioso, umbellis paucifloris, floribus subsessilibus, foliis lineari-lanceolatis utrinque cano-tomentosis.* p. 277.

In Upper Louisiana. *Bradbury*. ♀. *v. s. in Herb. Bradbury*. This is the smallest species, generally from two to three inches high ; the flowers appear to be white.

Cactus viviparus — *C. subrotundus multiplex, tuberculis cylindraceis barbatis supra sulca exaratis proliferis.* p. 327.

C. viviparus. *Fraser. catal.* 1813.

In Upper Louisiana. *Fraser*. *v. v. s. fl. in Hort. Lambert*. Resembles *C. mammillaris* ; the flowers are large and red ; the fruit the size of a grape, green and eatable. In the same collection are also the two other species mentioned in Fraser's Catalogue ; but only seeing the plants without flowers, I could not define their characters.

Cratægus turbinata. — *C. inermis, glabra ; foliis cuneato-obovatis incisiss serratis, corymbis paucifloris, pedicellis brevibus, fructibus turbinatis.* p. 336.

In Carolina and Virginia. *h. June*. *v. v. ; v. s. in Herb. Sherrard*. This species approaches near to *C. spathulata*, but its fruit distinguishes it from all the rest of the American species.

Rosa lutescens. — *R. germinibus globosis pedunculisque glabris, ramulis hispido-spinosis, foliolis (7) glabris ovalibus acuminato-serratis, petiolis inermibus, floribus so-* p. 345.

litariis, laciniis calycis lanceolatis cuspidatis, petalis ovalibus obtusissimis.

In Carolina. $\mathfrak{h}$. May, June. *v. v. in Hort. Lee.* Flowers white, with a faint tint of yellow.

- p. 352. *Geum triflorum*.—*G. pilosum*; caule simplici subtrifloro, foliis radicalibus interrupte pinnatis, foliolis cuneatis inciso-dentatis, petalis oblongis longitudine calycis, aristas longissimis villosis.

In Upper Louisiana. *Bradbury*. $\mathfrak{U}$. *v. s. in Herb. Bradbury.* The aristas of the seeds are resembling those of *Clematis*.

- p. 356. *Potentilla arguta*.—*P. erecta*, simplex, pubescens; foliis pinnatis, foliolis ovatis argute dentatis, exterioribus majoribus, stipulis rhomboideis incis, floribus terminalibus conferto-corymbosis.

In Upper Louisiana. *Bradbury*. $\mathfrak{U}$. *v. s. in Herb. Bradbury.* Flowers yellow; leaves large.

- p. 384. *Clematis Catesbyana*.—*C. scandens*, pubescens; foliis biteruatis, foliolis subcordatis trilobis, paniculis divaricato-dichotomis, petalis staminibus longioribus, floribus subdioicis.

In South Carolina. *Catesby*. $\mathfrak{h}$. *v. s. in Herb. Sherard.* Resembles *C. virginica*. The filaments of the female flowers are membranaceous, linear, and without anthers.

- p. 385. *Clematis ovata*.—*C. erecta*, simplex; foliis ovatis sensim acutis brevi-petiolatis glabris utrinque reticulato-venosis, inferioribus subcordatis pedunculo terminali solitario unifloro, aristas plumosis longissimis.

In South Carolina. *Catesby*. $\mathfrak{U}$. *v. s. in Herb. Sherard.* Resembles *C. integrifolia*. In the Sherardian Herbarium the figure of *Pluk. mant. t. 379. f. 4.* is quoted; but I consider that figure to be an imperfect specimen of a *Clematis* with compound leaves.

- p. 395. *Ranunculus multifidus*.—*R. foliis tripartito-multifidis*: laciniis incis, approximatis, caule natante, foliolis calycis subrotundis petalis paulo brevioribus.

In Upper Louisiana. *Bradbury*. $\mathfrak{U}$. *v. s. in Herb. Bradbury.* Flowers yellow; resembles *R. fluviatilis*.

- p. 424. SEYMERIA. *Cal. campanulatus*, 5-partitus: laciniis linearibus, æqualibus. *Cor. campanulata. Tubus calyce*

vix longior. *Limbus* 5-fidus: laciniis subæqualibus, oblongis, patentibus. *Filamenta* 4. brevia, fauce inserta. *Anthæræ* erectæ, oblongæ, nudæ, longitudine corollæ. *Stylus* declinatus, longitudine staminum. *Stigma* simplex. *Caps.* subrotunda, 2-locularis, 2-valvis, apice dehiscens.

Seymeria tenuifolia.—*S.* glabriuscula, virgatim paniculata; foliis setaceo-pinnatifidis, laciniis divisis.

Gerardia Cassioides. *Vol* 2. *p.* 424.

In dry sandy woods of Carolina and Georgia. ☉. July, Aug. *v. s. in Herb. Sherard.* Flowers small, dark yellow.

Seymeria pectinata.—*S.* viscido-pubescent, brachiatim ramossissima; foliis pectinato-pinnatifidis, laciniis indivisis linearibus acutis.

In South Carolina. *Catesby*. ☉ July. *v. s. in Herb. Sherard.* Flowers the size and colour of the preceding. While writing the genus *Gerardia*, I strongly suspected *G. cassioides* to be a distinct genus, which already had been considered so by Walter and Gmelin. Having no materials then at hand, I followed the authority of Michaux. But finding in the Sherardian Herbarium not only that species, but also a new one described here, I was convinced of its generic distinction, the character of which is well expressed in *Walt fl. car.* 171. I have named this genus in memory of the late Henry Seymer, Esq. of Hanford, Dorsetshire, a gentleman much celebrated for his extensive collections in natural history, and for whom Dr. Solander had so great a regard as to dedicate the plant which afterwards was called *Solandra grandiflora* to his memory, as I have seen it named *Seymera* in the Herbarium of A. B. Lambert, Esq., in Dr. Solander's own handwriting.

Chelone Lyoni.—*C.* glabra, ramosa; foliis petiolatis cordato-ovatis serratis, spicis terminalibus densifloris.

p. 427.

In Upper Carolina and Georgia. *Lyon*. ♀. July—Sept. *v. s. in Herb. Lambert.* This is a very fine and large species; flowers purple.

Pentstemon erianthera.—*P.* caule pumilo pubescente, foliis oblongis acutis obsolete denticulatis subhirsutis, floribus racemosis, pedicellis plerumque solitariis, filamento sterili exerto apice revoluta longitudinaliter barbato, calycis foliolis linearibus hirsutissimis.

p. 428.

P. erianthera. *Fraser. catal* 1813.

In Upper Louisiana. *Bradbury*. *U. v. s. in Herb. Bradbury*. Not above a span high; flowers large in proportion, of a deep purple; the hairs of the infertile anthera are long and golden yellow. It approaches near to *P. frutescens*.

Pentstemon angustifolia.—*P. caule vix pubescente, foliis glabris longe linearibus integerrimis, floribus racemoso-paniculatis, filamento sterili reliquis brevioribus superne subhirsuto, calycis foliolis lanceolatis glabris.*

P. angustifolium *Fraser. catal* 1813.

In Upper Louisiana. *Bradbury*. *U. v. s. in Herb. Bradbury*. Flowers resembling those of *P. pubescens*.

Pentstemon glabra.—*P. caule foliisque glabris, foliis subamplexicaulibus ovato-oblongis integerrimis, floribus racemoso-paniculatis, filamento sterili nudo clavato apice retuso, calycis foliolis subrotundis acuminatis, laciniis corollæ subæqualibus rotundatis, antheris hirsutis.*

In Upper Louisiana. *Bradbury*. *U. v. s. in Herb. Bradbury*. A fine and large species; flowers dark purple.

Pentstemon Bradburii.—*P. glaberrima; foliis subamplexicaulibus ovato-oblongis integerrimis, superioribus subrotundis, floribus verticillatis, filamento sterili apice brevi barbato, calycis foliolis oblongis acutis.*

P. grandiflorum. *Fraser. catal* 1813.

This is the finest and largest of all the species; the flowers very large, and variable in their colour.

p. 431.

Castilleja sessiliflora.—*C. foliis apice palmato-incisis, floribus sessilibus.*

In Upper Louisiana. *Bradbury*. *U. v. s. in Herb. Bradbury*.

Caulis ramosus, teres, dense pubescens. Folia alterna, sessilia, utrinque pubescentia, apice in lacinias 3—5. divisa: laciniis linearibus, elongatis, acutis. Flores in apice ramorum axillares, solitarii, sessiles, coccinei? Calyx tubulosus, basi ventricosus, 4-fidus? Corolla ringens. Labium superius acutum? inferius trifidum: laciniis linearibus, acutis, labio superiore vix brevioribus. Stamina fauci corollæ inserta, filiformia, longitudine labii superioris, glabra. Antheræ lineares. Stigma exsertum.

This highly interesting plant has some distant affinity with *C. fissifolia*. *Smith ic. ined. t. 40.*

Cleome pinnata.—*C. subpubescens*, hexandra; foliis pinnatis, foliolis lanceolatis interne attenuatis rariter dentatis, superioribus confluentibus, floribus racemosis, pedicellis aggregatis, p. 441.
In Upper Louisiana. *Bradbury. v. s. in Herb. Bradbury.*
About two feet high; flowers of a bright yellow; the pods are on very long pedicels.

Polygala corymbosa.—*P. caule inferne simplicissimo, summitate ramosa corymbosa multiflora, foliis linearibus.*— p. 446.
Mich. fl. amer. 2 p. 54.
P. cymosa. Walt. fl. car. 179.
In swamps: Carolina to Florida. 24. July, Aug. v. s.
Flowers yellow, when dried green.

Vicia stipulacca.—*V. racemis subquadrifloris folio longioribus, stipulis foliiformibus basi semisagittatis integris, foliolis 8--10. lineari-lanceolatis utrinque acutis nervosis glabris.* p. 472.

In Upper Louisiana. *Bradbury. 24. v. s. in Herb. Bradbury.*

Caulis subtetragonus, striatus, simplex, vix pedalis. Foliola 8--10. opposita lineari-lanceolata acuta glabra utrinque elevato-nervosa. Stipulae longitudine foliorum, basi semisagittatae, auriculis acutis. Cirrhus obsoletus, setaceus. Pedunculi axillares folio duplo longiores. Racemi plerumque 4-flori. Flores magni, purpurei. Legumen glabrum.

Ervum multiflorum.—*E. racemis pedunculatis multifloris folio longioribus, leguminibus lanceolatis glabris sub-4-spermis, stipulis ovatis acuminatis, foliolis linearibus obtusis, cirrhis nullis, caule paniculato.*

Astragalus tenellus. Vol. 2. p. 473.

In Upper Louisiana. *M. Lewis and Bradbury. 24. Aug. v. s. in Herb. Lewis. nec non Bradbury.*

Caulis erectus, paniculato-ramosus, teres. Ramuli juniores sericei. Foliola plurima, alterna linearia, obtusa, glabriuscula. Cirrhi nulli. Stipulae ovatae longe acuminatae. Racemi axillares, elongati, pedunculati. Bractae minutae, ovatae, acuminatae, vix longitudine pedicellorum. Pedicelli flore breviores. Flores parvi albidii, vexillo oblongo. Calyx sericeus, corolla triplo brevior, dentibus subulatis. Stylus filiformis, glaber,

inflexus. *Stigma* acutum, glabrum. *Legumina* pendula, oblongo-lanceolata, glabra, 3-4-sperma.

Of this plant I had an imperfect specimen in the Lewisian Herbarium, together with some pods of an *Astragalus*, which led me into the error of placing it under that genus; but having since seen fine specimens in the collection of Mr. Bradbury, I was enabled to correct this error.

Astragalus racemosus.—*A.* caulescens, erectus, subpubescens; foliolis (21) lanceolatis superne sensim minoribus, stipulis ovatis acuminatis, spicis racemosis pedunculatis folio longioribus, densifloris, bracteis linearibus pedicellis brevioribus, calycibus glabriusculis, dentibus subulatis.

In Upper Louisiana. *Bradbury*. *U. v. s. in Herb. Bradbury*. Flower white. Resembles *A. carolinianus*.

Astragalus carnosus.—*A.* caulescens, diffusus, albido-sericeus, foliolis (21) ellipticis supra glabris, subtus sericeis, stipulis subulatis, spicis subsessilibus, leguminibus globosis inflatis carnosis.

In Upper Louisiana. *Bradbury*. *v. s. in Herb. Bradbury*. The fruit resembles that of *A. psysodes*. Flowers appear to have been white. This is probably the *A. crasicarpus* *Fraser. catal.* 1813.

p. 473.

Astragalus triphyllus.—*A.* acaulis, argenteus, foliis ternatis, foliolis sessilibus lanceolatis, scapo nullo, leguminibus sessilibus oblongis.

In Upper Louisiana. *Bradbury*. *U. v. s. in Herb. Bradbury*. A most singular species, the leaves of a shining silver colour; the flowers were too much decayed when I examined the specimens.

Oxytropis Lambertii.—*O.* acaulis, sericeo-pilosa; foliolis (19) lanceolato-ellipticis utrinque acutis, scapis folia æquantibus, spicis capitatis, bracteis linearibus longitudine calycis.

On the Missouri. *Bradbury*. *U.* Aug. Sept. *v. v. in Hort. Lambert*. Flowers a beautiful purple. It approaches near to *O. argentata* and *setosa*.

p. 474.

Dalea aurea.—*D.* sericeo-villosa; spicis oblongis terminalibus solitariis, bracteis oblongis acuminatis calycis longitudine ciliatis, calycibus villosissimis, foliis sub-3-jugis oblongis obovatisque obtusis.

D. aurea. *Fraser. catal.* 1813.

In Upper Louisiana. *Bradbury.* *Ů. v. s. in Herb. Bradbury.* Flowers bright yellow, in oblong hairy spikes.

Dalea laxiflora.—*D. glabriuscula*; caule superne ramosissimo, ramis laxis elongatis, spicis paniculatis elongatis, floribus remotiusculis, bracteis subrotundis mucronatis carinatis, floribus enneandris, calycibus sericeo-villosis, foliis sub-4-jugis linearibus.

D. enneandra. *Fraser. catal.* 1813.

In Upper Louisiana. *Bradbury.* *Ů. v. s. in Herb. Bradbury.* This is the tallest of the genus. The white flowers are in narrow spikes, and have remarkable silky calyces, which form a fine contrast with the rest of the plant, being entirely destitute of hair.

Psoralea elliptica.—*P. subpubescens*; foliis ternatis: foliolis ellipticis obtusis, pedunculis axillaribus folio longioribus, spicis conferto-paucifloris, dentibus calycis abbreviatis. p. 475.

In Upper Louisiana. *Bradbury.* *Ů. v. s. in Herb. Bradbury.* Flowers small, white with a tinge of purple.

Psoralea longifolia.—*P. undique sericeo-villosa*; foliis ternatis: foliolis linearibus elongatis, spicis axillaribus pedunculatis laxifloris folio brevioribus, dentibus calycis bracteisque subulatis.

In Upper Louisiana. *Bradbury.* *Ů. v. s. in Herb. Bradbury.* Flowers midde-sized, apparently white. The leaves have none of those glandular dots so general in this genus.

Psoralea cuspidata.—*P. villosa*; foliis digitato-quinatis, foliolis obovatis mucronatis integerrimis, spicis axillaribus densifloris, laciniis calycis bracteisque ovatis cuspidatis conspicue punctatis. p. 476.

P. macrorhiza. *Fraser. catal.* 1813.

In Upper Louisiana. *Bradbury.* *Ů. v. s. in Herb. Bradbury.* This species has some resemblance to *P. esculenta*.

Cytisus rhombifolius.—*C. pubescens*; racemis terminalibus erectis, leguminibus falcatis subarticulatis, foliolis oblongo-rhomboides obtusis, stipulis rotundato-ovatis obliquis. p. 489.

C. rhombifolius. *Fraser. catal.* 1813.

In Upper Louisiana. *Bradbury. v. s. in Herb. Bradbury.* The stipulæ are large and foliaceous; the specimen I have seen was in fruit, and Mr. Bradbury has seen only one plant in flower.

p. 505.

Troximum glaucum.—*T.* scapo unifloro glabriusculo, foliis lineari-lanceolatis planis integerrimis utrinque glaucis, calycinis foliolis imbricatis acutis pubescentibus.—*Vol.* 2. p. 505.

Troximum cuspidatum.—*T.* scapo unifloro superne subtomentoso, foliis linearibus margine undato tomentosis, calycinis foliolis imbricatis cuspidatis glabris.

In Upper Louisiana. *Bradbury. 2. v. s. in Herb. Bradbury.* Flowers large, yellow. Resembles the preceding.

p. 519.

Hymenopappus scabiosæus.—*H.* candicanti-lanuginosus; foliis profunde pinnatifidis, laciniis lineari-oblongis subdentatis, floribus simpliciter corymbosis, calyce sub-10-phyllo flosculis majore, seminibus pubescentibus.—*Vol.* 2. p. 519.

Hymenopappus tenuifolius.—*H.* candicanti-lanuginosus; caule corymboso-ramoso, foliis subbipinnatifidis, laciniis anguste linearibus integris, floribus composite corymbosis, pedicellis confertis, calyce sub-6-phyllo flosculis brevior, seminibus villosissimis.

In Upper Louisiana. *Bradbury. 3. v. s. in Herb. Bradbury.* At first sight I considered this to be the same with the preceding species; but comparing the figure and description in the *Journal d'Histoire Naturelle*, vol. 1. p. 16. t. 1. with my specimen, I found them materially distinct. The flowers are white, and not half the size of the former.

p. 521.

Artemisia dracunculoides.—*A.* glabra; ramis nutantibus, foliis longo-linearibus subfalcatis, radicalibus trifidis, racemis foliosis, pedicellis brevibus, floribus erectis, calycibus subglobosis paucifloris, foliolis scariosis.

A. nutans. Fraser. catal. 1813.

In Upper Louisiana. *Bradbury. 4. v. s. in Herb. Bradbury.* From three to four feet high; flowers very small.

p. 532.

Erigeron hirsutum.—*E.* undique hirsutissimum; caule sim-

plici unifloro, foliis linearibus integerrimis enervibus, calycibus hirsutis

E. uniflorum. *Willd. sp. pl.* 3. p. 1960 ?

In Upper Louisiana. *Bradbury. M. v. s. in Herb. Bradbury.* Not above five inches high ; flowers large, ray white and long.

Galardia acaulis.—*G. pilosa* ; scapo unifloro, foliis linearispathulatis, paleis pappi (5—7) ovatis brevi-aristatis. p. 573.

In Upper Louisiana. *Bradbury. M. v. s. in Herb. Bradbury.* Not above a span high ; flower small, simply yellow.

Iva axillaris.—*I. herbacea*, subpilosa ; foliis plerumque oppositis lineari-lanceolatis integerrimis, floribus axillaribus solitariis nutantibus, calycibus simpliciusculis, foliolis ovatis. p. 580.

In Upper Louisiana. *Bradbury. ☉. v. s. in Herb. Bradbury.* About a span high ; flowers white.

Ambrosia hispida.—*A. undique canescenti-hispida* ; foliis bipinnatifidis, laciniis incisis, racemis terminalibus sub-pauciculatis. p. 581.

In South Carolina. *Catesby. ☉. v. s. in Herb. Sherard.* About a foot high ; flowers larger than *A. trifida*.

Orchis herbiola.—*O. cornu filiformi germine brevior*e, labello oblongo obtuso basi utrinque dentato ; palato undentato, bracteis flore longioribus. p. 587.

Habenaria herbiola. *Brown in Ait. kew. ed. 2. vol. 5. p. 193.*

In North America. *Fothergill. M. +.* This species, unknown to me, appears to approach near to *Orchis fuscescens*.

Aristolochia tomentosa.—*A. caule volubili frutescente*, foliis petiolatis cordatis subtus tomentosis, pedunculis solitariis ebracteatis, corollæ tubo retorto ; limbo subæqualiter trifido ; ore hiante. *Sims in bot. mag.* 1369. p. 596.

On the mountains of South Carolina. *Lyon. h. June. v. v.* Resembles *A. Siph.* Flowers yellow.

Alnus glauca.—*A. foliis oblongis acutis duplicato-serratis subtus glaucis, axillis venarum nudis, stipulis lanceolatis*—*Mich. arb.* 3 p. 322. t. 4. p. 622.

In New England and on the high mountains of Pennsylvania. *h. March, April. v. v.* This shrub, which is known by the name of *Black Alder*, has a strong resemblance to *A. incana*.

ADDENDA ET CORRIGENDA.

VOL. I.

pag.

- 1 lin. 4 loco *Monoicum* lege *Monoica*. This error occurs in this and the next table of genera.
- 15 adde *Monoicum*.
- 22 adde *Monoica*.
- 23 adde *Monoica*.
- 3 7 *Hippuris vulgaris*. In the Sherardian Herbarium are specimens collected at Hudson's Bay which I compared with the European *Hippuris*, and found them entirely distinct. I rather suspect this plant ought to be placed among the *Filices*.
- 6 5 adde *Dioica*.
- 7 12 adde *Dioica*.
- 13 adde *Dioica*.
- 15 adde *Monoica*.
- 7 ab infer. adde *Mich. arb.* 3. p. 50. t. 6.
- 8 17 ab infer. lege *Mich. arb.* 3. p. 122. t. 12.
- 11 ab infer. lege *Mich. arb.* 3. p. 118. t. 11.
- 3 et 5 ab infer. delendæ sunt.
- 9 5 delenda est.
- 6 lege *Mich. arb.* 3. p. 106. t. 8.
- 14 dele *Mich. arb.* ejus loco *Catesb. car.* 1. t. 80.
- 19 dele *Catesb. car.* t. 80. et lege *Mich. arb.* 3. p. 128. t. 13.
- 28 lege *Mich. arb.* 3. p. 112. t. 9.
- 3 ab infer. lege *F. viridis. Mich. arb.* 3. p. 115. t. 10.
- 10 5 adde *Mich. arb.* 3. p. 217. t. 6.
- 16 *Monarda Kalmiana*, adde *Icon.* t. 1.
- 17 13 post *Flowers* adde *pale*.
- 21 *Ceratiola ericoides*, adde *Icon.* t. 13.
- 24 25 *Rynchospora* lege *Rynchospora*.

- pag. lin.
- 20 30 dele genus ANTHISTIRIA.
- 30 Iris cuprea, *adde* I. fulva. *Bot. mag.* 1496.
 Iris verna, *conf.* *Bot. mag.* 1393 *observ.*
 Iris prismatica, *adde* *Bot. mag.* 1504.
- 42 16 loco foliis lege foliisque.
- 43 18 loco E lege C.
- 61 9 et 14 loco *Dilepycum* lege *Dilepyrum*.
- 62 Miliun amphicarpon *adde* *Icon. Tab.* 2.
- 72 6 ab infer. loco A lege S.
- 95 23 dele 2. ante biloculari.
- 96 7 ab infer. loco involucro lege involucris.
- 98 8 ad marginem loco data lege cordata.
 ultima, loco caule lege scapo.
- 102 *Oldenlandia glomerata*. Willdenow's and Lamarck's synonym seem to belong to a very ambiguous species of this genus, or, as I strongly suspect, to *Ludwigia nitida*, as I have seen this plant in the Sherardian Herbarium under the name and synonyms of *Oldenlandia uniflora*.
- 115 *Planera aquatica*, *adde* P. ulmifolia. *Mich. arb.* 3. p. 283.
- 126 18 loco *Gonolobus* lege *Gonolotium*.
 20 loco Appendix lege Appendices.
 inter 224 et 225 insere CEROPEGIA. *Folliculi* 2. erecti. *Sem.* plumosa. *Cor.* urceolatae limbus connivens.
- 128 inter 244 et 245 insere SISON. *Fructus* ovatus, striatus. *Invol.* sub-4-phylla.
- 138 8 ab infer. post palustris *adde* β . inflata.
- 146 *Iponoea Jalapa*, *adde* *Convolvulus Jalapa*. *Bot. mag.* 1572.
- 158 *Pinkneya pubescens*, *adde* *Mich. arb.* 2. p. 276. t. . . .
- 159 11 et 12 delendæ sunt.
- 163 *Ribes resinosum*, *adde* *Icon. Bot. mag.* 1583.
- 164 7 ab infer. *adde* *Mich. fl. amer.* 1. p. 109.
- 165 7 ab infer. loco lacustris lege lacustre.
- 166 1 loco subgeminis lege sub gemmis.
- 167 6 *adde* *Bot. mag.* 1479.
- 169 ultima, ante *utrinque* *adde* *foliis*.
- 175 *Claytonia lanceolata*, *adde* *Icon. Tab.* 3.
- 177 *Nyssa villosa*, *adde* N. sylvatica. *Mich. arb.* 2. p. 260. t. 21.
Nyssa biflora, *adde* *Mich. arb.* 2. p. 265. t. 22.

pag.	lin.	
177		<i>Nyssa candicans</i> , adde <i>Mich. arb.</i> 2. p. 257. t. 26.
178		<i>Nyssa tomentosa</i> , adde <i>Mich. arb.</i> 2. p. 252. t. .
181	1	loco 1187 lege 1181.
186	1	adde <i>Bot. mag.</i> 1551.
187	20	loco unifloribus lege unifloris.
199		ultima, adde <i>Mich. arb.</i> 3. p. 269. t. . . .
200		<i>Ulmus fulva</i> , adde <i>U. rubra. Mich. arb.</i> 3. p. 278. t. . . .
		<i>Ulmus alata</i> , adde <i>Mich. arb.</i> 3. p. 275. t. . . .
		<i>Celtis occidentalis</i> , adde <i>Mich. arb.</i> 3. p. 226. t. 8.
		<i>Celtis crassifolia</i> , adde <i>Mich. arb.</i> 3. p. 228. t. 9.
206	17	loco ramosissima lege ramosissimo.
219		<i>Berberis aquifolium</i> , adde <i>Icon. Tab.</i> 4.
		<i>Berberis nervosa</i> , adde <i>Icon. Tab.</i> 5.
221		<i>Gleditschia triacanthos</i> , adde <i>Mich. arb.</i> 3. p. 164. t. . . .
		<i>Gleditschia monosperma</i> , adde <i>Mich. arb.</i> 3. p. 169. t. . . .
223		<i>Allium angulosum</i> , adde <i>A. stellatum. Bot. mag.</i> 1576.
224		<i>Conostylis americana</i> , adde <i>Icon. Tab.</i> 6. <i>Lophiola aurea. Bot. mag.</i> 1596. In this figure the flowers are more than twice the size of those in its native state.
226		<i>Phalangium Quamash</i> , adde <i>Scilla esculenta. Bot. mag.</i> 1574. Having not seen the living plant when I made my description, I was misled by Mr. Lewis in describing one of the petals to be dependent and the rest ascendent, which is not the case.
228		<i>Lilium pudicum</i> , adde <i>Icon. Tab.</i> 8.
232		<i>Streptopus roseus</i> , adde <i>Uvularia rosea. Bot. mag.</i> 1489.
		<i>Streptopus lanuginosus</i> , adde <i>Uvularia lanuginosa. Bot. mag.</i> 1490.
240		<i>Chamærops Palmetto</i> , adde <i>Mich. arb.</i> 2. p. 186. t. . . .
		<i>Nolina georgiana</i> , adde <i>Asphodelus minor albus ex Provincia mariana. Pluk. mant.</i> 29. t. 342. f. 1. (pars paniculæ), secundum <i>Herb. Sherard.</i> Very fine specimens of this rare plant I found in the Sherardian Herbarium collected by M. Catesby on the Savannah river. It resembles <i>Helonias graminea, Bot. mag.</i> 1599.

- pag. lin. exceedingly, and I should have taken it to be the same if the pedicels were not solitary, and, as Mr. Kerr observes, the germ polyspermous, which in *Noline* is only 3-spermous.
- 242 *Veratrum viride*, *adde* *Helonias viridis*. *Bot. mag.* 1096.
Veratrum angustifolium.—Of this species I have seen a fine specimen in the Sherardian Herbarium, under the name *Phalangium canadense majus ramosum*, *Iridis folio*, by which it appeared to grow likewise in Canada. The panicle was monoic not dioic, as I observed it in Virginia, the seeds lanceolate, membranaceous.
- 242 14 *ab infer. loco* legumine *lege* tegumine.
 243 23 *loco* thier *lege* their.
Helonias tenax, *adde* *Icon. Tab. 9.*
- 255 *Æsculus flava*, *adde* *Mich. arb. 3. p. 238. t..*
Æsculus glabra, *adde* *Mich. arb. 3. p. 242.*
- 259 4 *ab infer. adde* nomen specificum, *rosmarinifolium*.
- 263 dele *Oenothera scapigera*. *Ejus loco vid.* Supplementum *sub nomine* *Oenothera cæspitosa*.
- 264 *Menziesia globularis*, *adde* *M. ferruginea* β. *Bot. mag.* 1571. Though Dr. Sims considers this species only as a variety, I still think the distinctions given by A. Salisbury, Esq. are sufficient to keep it as a species.
- 265 *Diospyros virginiana*, *adde* *Mich. arb. 2. p. 195. t. 12.*
- 266 *Acer rubrum*, *adde* *Mich. arb. 2. p. 210. t. 14.*
Acer dasycarpum, *adde* *Mich. arb. 2. p. 205. t. 13.*
Acer saccharinum, *adde* *Mich. arb. 2. p. 218. t. 15.*
Acer nigrum, *adde* *Mich. arb. 2. p. 238. t. 16.*
- 267 *Acer striatum*, *adde* *Mich. arb. 2. p. 242. t. 17.*
- 268 *Acer Negundo*, *adde* *Mich. arb. 2. p. 247. t. 18.*
- 282 *inter* AGROSTEMMA *et* OXALIS, *adde* 394.
 LYCHNIS. *Cal.* 1-phyllus, oblongus, lævis.
Pet. 5. unguiculata, limbo subbifido. *Cups.* 1—5-locularis.
 6 *loco* 394 *lege* 395.
 10 *loco* 395 *lege* 396.

pag.	lin.	
	12	loco 396 lege 397.
	15	loco 397 lege 398.
283		<i>Gaultheria serpyllifolia</i> , <i>adde Tab.</i> 13.
284		<i>Gaultheria Shallon</i> , <i>adde Tab.</i> 12.
289		<i>Vaccinium nitidum</i> , <i>adde Bot. mag.</i> 1550.
293		<i>Andromeda floribunda</i> , <i>adde Bot. mag.</i> 1566.
In the extensive collection of the Sherardian
Herbarium I met with most of the species of
<i>Vaccinium</i> and <i>Andromeda</i> described in the
present work ; but meeting with none that
were new, convinced me of the idea that this
extensive family is nearly fully described
here.
294		<i>Andromeda mariana</i> , <i>adde var. ovalis. Bot.</i>
<i>mag.</i> 1579.
295		<i>Andromeda arborea</i> , <i>adde Mich. arb.</i> 3. p. 222.
<i>t.</i> 7.
297		<i>Kalmia latifolia</i> , <i>adde Mich. arb.</i> 3. p. 147. <i>t.</i> 5.
<i>Rhododendron maximum</i> , <i>adde Mich. arb.</i> 3.
<i>p.</i> 144. <i>t.</i> 4.
298		<i>Rhododendron catawbiense</i> . I have had an op-
portunity of seeing this species in flower at
Messrs. Lee and Kennedy's ; the plant was not
above a foot high ; the flowers rose-coloured,
similar to those of <i>R. maximum</i> ; but having
scarcely any marks or spots on the upper part
of the corolla.
302		<i>Mylocarum ligustrinum</i> , <i>adde Icon. Tab.</i> 14.
The original drawing of this plant was taken
by me at Messrs. Bartrams' near Philadelphia.
303		<i>Monotropa morisoniana</i> . I had the pleasure of
seeing, in the Oxford Herbarium, the origi-
nal specimen from which the figure in Mo-
rison's History has been taken, and which so
erroneously has been quoted under <i>Monotropa</i>
<i>uniflora</i> .
304		<i>Gymnocladus canadensis</i> , <i>adde Mich. arb.</i> 2.
<i>p.</i> 272. <i>t.</i> 23.
308		<i>Podalyria mollis</i> , <i>adde v. s. in Herb. Lambert.</i>
309		<i>Virgilia lutea</i> , <i>adde Mich. arb.</i> 3. p. 266. <i>t.</i> 3.
313		<i>Tiarella cordifolia</i> , <i>adde Bot. mag.</i> 1589.
327		BARTONIA. Since writing the above article I
had an opportunity of seeing both species there
described in a living state ; the first in the
garden of A. B. Lambert, Esq. at Boyton,

pag. lin.

where it flowered in very high perfection and formed seeds; the other at Messrs. Frasers', Sloane Square. From the latter I have taken the following description.

Bartonia nuda.—*Caulis* ramosus, angulatus, glanduloso-pubescens. *Folia* oblonga, sessilia, basi attenuata, repando-dentata, utrinque scabra, viridia. *Inflorescentia* *B. ornatæ*. *Flores* duplo minores, lutescentes, germine nudo, angusto. *Petala* 10. angusto-lanceolata. *Filamenta* exteriora longiora, plerumque castrata et petaloidea.

- 333 Tigarea tridentata, *adde* Icon. Tab. 15.
 339 8 *ab infer. loco* linearibus *lege* lineari-
 1 *ab infer. adde* Mespilus arborea. *Mich. arb.* 3.
p. 68. *t.* 11.
 340 Pyrus coronaria, *adde* Malus coronaria. *Mich.*
arb. 3. *p.* 65. *t.* 10.
 344 Rosa blanda. Differentia specifica *lege* R. ger-
 minibus globosis pedunculisque hispidis, ra-
 mis aculeato-hispidissimis, foliolis &c.
 348 Rubus spectabilis, *adde* Icon. Tab. 16.
 350 Dalibarda fragaroides, *adde* Bot. mag. 1567.

VOL. II.

- 362 Tilia glabra, *adde* T. americana. *Mich. arb.* 3.
p. 311. *t.* 1.
 363 Tilia pubescens, *adde* *Mich. arb.* 3. *p.* 317. *t.* 3.
 Tilia heterophylla, *adde* T. alba. *Mich. arb.* 3.
p. 315. *t.* 2.
 365 Talinum teretifolium, *adde* Pluk. alm. t. 223.
f. 2. *secundum* Herb. Sherard.
 390 Caltha flabellifolia, *adde* Icon. Tab. 17.
 404 *adde* CASTILLEJA. *Cal.* tubulosus unilabiatus.
Cor. bilabiata, labio inferiore trifido, glandulis
 duabus inter lacinias. *Caps.* bilocularis.
 411 Prunella pensylvanica, *adde* Icon. Mart. cent.
t. 5.
 423 Gerardia fruticosa, *adde* Icon. Tab. 18.
 Gerardia quercifolia, *adde* Icon. Tab. 19.
 424 Gerardia cassioides *dele.* *Ejus loco vide* Supple-
 mentum *sub nomine* Seymeria.
 427 Mimulus Lewisii, *adde* Icon. Tab. 20.
 Pentstemon lævigata, *adde* Bot. mag. 1425.
 428 Pentstemon pubescens, *adde* Bot. mag. 1424.

- pag. lin.
 441 13 loco glabrum lege glabra.
 451 Hopea tinctoria, adde *Mich. arb.* 3. p. 61. t. 9.
 Gordonia Lasianthus, adde *Mich. arb.* 3. p. 131.
 t. 1.
 Gordonia pubescens, adde *Mich. arb.* 3. p. 135.
 t. 2.
 460 inter 591 et 592, adde CYTISUS. *Cal.* bilabiatus :
 labio superiore bidentato. *Carina* erecta.
Legum. basi attenuatum, 1-loculare, compres-
 sum. *Stam.* monadelphia.
 inter 587 et 588, adde ERVUM. *Cal.* 5-dentatus,
 dentibus subulatis. *Stigma* simplex, incur-
 vum. *Legum.* compressum, oligospermum.
Stam. diadelphia.
 465 Polygala Seneca, adde var. γ . tenuifolia—foliis
 linearibus, spicis confertifloris.
 On the Missouri. *Lewis and Bradbury.* v. s.
 468 Lupinus villosus, adde *Icon. Tab.* 21.
 471 Vicia americana, adde v. s. in *Herb. Bradbury.*
 var. foliis linearibus.
 475 Psoralea esculenta, adde *Icon. Tab.* 22.
 479 Lupinaster macrocephalus, adde *Icon. Tab.* 23.
 480 Glycyrrhiza lepidota, loco sericeo-villosis lege
 utrinque lepidotis.
 487 Robinia Pseudacacia, adde *Mich. arb.* 3. p. 245.
 t. 1.
 488 Robinia viscosa, adde *Mich. arb.* 3. p. 262. t. 2.
 499 Prenanthes Serpenteria, adde *Icon. Tab.* 24.
 507 Liatris macrostachya, adde *Bot. mag.* 1411.
 529 Senecio pauperculus, adde v. s. in *Herb. Brad-*
bury.
 559 3 loco t. 4. lege vol. 5.
 564 Amellus villosus, adde *Sideranthus integrifolius.*
Fraser. catal. 1813. v. s. in *Herb. Bradbury.*
 Amellus spinulosus, adde *Sideranthus pinnatifid-*
us. *Fraser. catal.* 1813. v. s. in *Herb.*
Bradbury.
 571 7 loco acutis lege acuminatis.
 572 Galardia bicolor, adde G. bicolor; caule ramo-
 so, foliis caulinis lanceolatis subdentatis, ra-
 dicalibus dentato-pinnatifidis, paleis pappi
 integerrimis aristatis. *Sims in Bot. mag.* 1602.
 Virgilia grandiflora. *Fraser. catal.* 1813.
 This elegant plant, which has been proved to be
 a perennial, though it was always considered

pag. lin.

an annual, is very variable in its size, colour, and number of florets in the ray. Native specimens collected by Mr. Bradbury are covered with rigid hairs, and have but one flower. Cultivated plants raised from seeds of the same species are more smooth, branch more or less; the leaves are deeper divided, and produce several flowers double the size.

- 575 *Rudbeckia columnaris*, *adde* *R. columnaris*; foliis pinnatifidis: foliolis lanceolatis, exterioribus ordinatim majoribus, receptaculo cylindraceo elongato. *Sims in Bot. mag.* 1601. This species is not above a foot high, and appears to be annual.
- 580 *Iva ciliata*, *adde* *Iva annua*. *Mich. fl. amer.* 2. p. 184.
- 585 *Orchis ciliaris*, *adde* *Habenaria ciliaris*. *Brown in Ait. kew. ed. 2. vol. 5. p. 194.*
- Orchis cristata*, *adde* *Habenaria cristata*. *Brown in Ait. kew. ed. 2. vol. 5. p. 194.*
- 587 *Orchis viridis*, *adde* *Habenaria viridis*. *Brown in Ait. kew. ed. 2. vol. 5. p. 192.*
- Orchis bracteata*, *adde* *Habenaria bracteata*. *Brown in Ait. kew. ed. 2. vol. 5. p. 192.*
- 588 *Orchis hyperborea*, *adde* *Habenaria hyperborea*. *Brown in Ait. kew. ed. 2. vol. 5. p. 193.*
- Orchis fimbriata*, *adde* *Habenaria fimbriata*. *Brown in Ait. kew. ed. 2. vol. 5. p. 193.*
- 589 *Neottia cernua*, *adde* *Bot. mag.* 1568.
- Neottia repens*. *adde* *Goodyera repens*. *Brown in Ait. kew. ed. 2. vol. 5. p. 198.*
- 590 *Neottia pubescens*, *adde* *Goodyera pubescens*. *Brown in Ait. kew. ed. 2. vol. 5. p. 198.*
- Arethusa divaricata*, *adde* *Pogonia divaricata*. *Brown in Ait. kew. ed. 2. vol. 5. p. 203.*
- 592 *Cymbidium pulchellum*, *adde* *Calopogon pulchellus*. *Brown in Ait. kew. ed. 2. vol. 5. p. 204.*
- Cymbidium verecundum*, *adde* *Bletia verecunda*. *Brown in Ait. kew. ed. 2. vol. 5. p. 205. Bot. mag.* 930.
- 594 *Cypripedium parviflorum*, *adde* *Bot. mag.* 911.
- 595 *Cypripedium arietinum*, *adde* *Bot. mag.* 1569

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